

Publications and Outreach Activities

BOOKS AND BOOK-CHAPTERS PUBLISHED

1. Effect of Elastic Supports on the Critical Value of Reynolds Number past a Cylinder, in Sixth IUTAM Symposium on Laminar-Turbulent Transition, Fluid Mechanics and its applications Vol.78, Rama Govindarajan, editor, 2490254 Springer (2006), S. Mittal and S. Singh.
2. Atmospheric and Space Flight Dynamics, Springer (Birkhäuser), Boston, USA, November 2006, Ashish Tewari.
3. Stimuli Responsive Nanoparticles for Drug Delivery and Gene Transfection. Handbook of Particulate Drug Delivery (M. N. V. Ravi Kumar, Ed.). American Scientific Publishers, USA, 2007, Kumar, A. and Jain, E.
4. Pattern searching in protein & DNA sequences. Statistical Advances in Biosciences and Bioinformatics (Ed. M. Pandey) Allied Publishers Pvt. Limited, New Delhi, pp 106-113, 2006, R. Sankararamakrishnan.
5. Gene Expression Profiling and Gene Network Analysis using Mathematical Programming in Advances in Computational Optimization and its Application, Universities Press, India, 2007, G. S. Sikarwar, R. Verma and S. Garg.
6. Advances in Computational Optimization and its Applications, Universities Press, Hyderabad, India, 2007, K. Deb, P. Chakroborty, N.G.R. Iyengar and S. K. Gupta, eds.
7. Steam Reforming of Ethanol for Hydrogen Production, in Hydrogen Production and Utilisation in Petroleum, Petrochemical and Fertilizer Industry. A Compedium, Ed: S. Banik, Lovraj Kumar Memorial Trust, 2006, P. Biswas and D. Kunzru.
8. Wave Dynamics and Stability of Thin Film Flow Systems, Narasoa Publishing, New Delhi (2006), Eds. R. Usha, Ashutosh Sharma, B. S. Dandapat.
9. Editors (2007). Advances in Computational Optimization and its Applications. University Press, Hyderabad, Kalyanmoy Deb, Partha Chakroborty, N. G. R. Iyengar and Santosh K Gupta.
10. Airborne Altimetric LiDAR: Principle, Data Collection, Processing and Applications in ISRO Tutor -Sensors and data processing, CSRE-IIT Bombay, Ed. Dr. Krishna Mohan, 2007, Lohani, B.
11. Video on Basic Surveying, NPTEL-MHRD, 2007, Lohani, B.
12. Earthquake Design Concepts, Teaching Resource Material for Teachers of Architecture Colleges, Prepared under the National Programme on Earthquake Engineering Education (NPEEE), an initiative of Ministry of Human Resource Development, Government of India, Published by the National Information Center

- of Earthquake Engineering, IIT Kanpur, June 2006, Murty,C.V.R., Chrleson,A.W., and Sanyal, S.A.
13. AT RISK: The Seismic Performance of Reinforced Concrete Frame Buildings with Masonry Infill Walls, Earthquake Engineering Research Institute (USA), Publication Number WHE-2006-03, First Edition November 2006, Murty, C.V.R., Brzev, S.N., Faison, H., Comartin, C.D., and Irfanoglu, A.
 14. Assembly Language Programming In Gnu/linux For Ia32 Architectures, Publisher: Prentice Hall of India Pvt. Ltd, Pages: 468, ISBN:81-203-3156-3, 2006, Rajat Moona.
 15. AGAINST THE CURRENT, VOL III: Electricity Act and Technical Choices for The Power Sector in India, MANOHAR, New Delhi, 2006. Edited by Prem K. Kalra and Joel Ruet, P K Kalra.
 16. INDIAN INFRASTRUCTURE REPORT - Rural Infrastructure (3i Network), OXFORD UNIVERSITY PRESS, New Delhi, 2007, Managing Editors- Prem K. Kalra and Anupam Rastogi, P. K. Kalra.
 17. Power Systems Analysis, an e-book prepared under National Programme on Technology Enhanced Learning (NPTEL), Government of India, A Ghosh. <http://nptel.iitm.ac.in/courses/Webcourse-contents/IIT-KANPUR/power-system/ui/TOC.htm>
 18. Information Processing using Quantum Probability, AIP Volume on Quantum Computing Back Action 2006, D. Goswami (Editor), pp 37-53, Laxmidhar Behera.
 19. Chapter 9: Recurrent Quantum Neural Network and Its Applications, in The Emerging Physics of Consciousness, Jack Tuszynski (Ed), Springer Verlag, 2006, Laxmidhar Behera, Indrani Kar and A.C. Elitzur.
 20. Proceedings of the Thirteenth National Conference on Communications (Editors: Ajit K. Chaturvedi, Srinivasan Umesh, Adrish Banerjee, Kameswari Chebrolu, Joseph John, Ayyangar R. Harish), I.I.T. Kanpur, 26-28 January 2007. ISBN Number: 978-81-904444-0-8
 21. Digital Communications and Signal Processing, Universities Press, 2007. ISBN Number: 81-7371-575-4, K. Vasudevan.
 22. Services Marketing - People, Technology, Strategy- A South Asian Perspective, Pearson Education Singapore, 2006, ISBN 81-7758-450-2, Lovelock, C., Wirtz, J. and Chatterjee.
 23. Materials Engineering- An Introduction, Viva Books Pvt. Ltd, New Delhi 2006, G.S. Upadhyaya and A. Upadhyaya.
 24. Rural Electrification in India Infrastructure Report 2007, 3I Network, Ed. A. Rastogi, Oxford University Press, New Delhi, P. K. Kalra, R. Shekhar and V. Shrivastava.
 25. On the Use of Strain Gages in Dynamic Fracture, Dynamic Fracture Mechanics, World Scientific, pp.199-235, (2006), V. Parameswaran, and A. Shukla,

26. Czochralski Growth of Oxide Crystals, Numerical Simulation and Experiments, Techscience Press, Georgia, USA, ISBN: 13-978-0-9717880-4-6, 256 pages, (March 2007), J. Banerjee and K. Muralidhar,
27. Imaging buoyancy-driven convective field around a KDP crystal using schlieren tomography, with Atul Srivastava and P.K. Panigrahi (pp. 133-147); Determination of the concentration field around a growing crystal using laser shadowgraphic tomography (pp. 158-175), with Sunil Verma and V.K. Wadhawan, in Computerized Tomography for Scientists and Engineers, edited by P. Munshi, Anamaya Publishers, New Delhi, 2006.
28. Optical Imaging and Control of Convection around a Crystal growing from its Aqueous Solution in New Developments in Crystal Growth Research, [ISBN: 1-59454-539-1] pp 1-89, editor: G.V. Karas, Nova Publishers, USA, (2005), K. Muralidhar, Atul Srivastava and P.K. Panigrahi.
29. Vision Based Tactile Sensor Using Transparent Elastic Fingertip for Dextrous Handling, Mobile Robotics, Perception & Navigation, Advanced Robotics Publications, Austria, EU, (2007), Goro Obinata, Ashish Dutta, Norinao Watanabe, Nobuhiko Moriyama.
30. Turbulence Control (Microflaps, Microballoon, Microsynthetic jet), Encyclopedia of Micro and Nano Fluidics, Springer Publications, Editor (D. Li), (2007), P.K. Panigrahi.
31. Boundary Slip of Liquids, Encyclopedia of Micro and Nano Fluidics, Springer Publications, Editor (D. Li), (2007), P.K. Panigrahi, Mohammed Asfer.
32. Engine Emissions: Pollutant Formation and Advances in Control Technology, Narosa Publishing House Pvt. Ltd., Delhi, (2007), B.P. Pundir.
33. Passion is the key - Chapter in the book - Secrets of Good Teaching - Ed. V. Kirpal, ICFAI University Press, Hyderabad (2006), A. K. Mallik.
34. Applied Mathematical Methods, Pearson Education (2006), Bhaskar Dasgupta.
35. Chaos, Nonlinearity, Complexity, The Dynamical Paradigm of Nature. Springer-Verlag, Berlin Heidelberg, 2006, A. Sengupta (Editor).
36. Alternative Fuels and CI Engine Performance, SP-2067, 160 Pages, Published by SAE International, USA, (2007), (Eds.), (ISBN No. 978-0-7680-1857-8). Date Published: April 2007, Avinash K. Agarwal, G. J. Thompson.
37. Fluorescence PET Signaling Systems for the Detection of Transition/Heavy Metal Ions of Biological and Environmental Importance, B. Bag and P. K. Bharadwaj, Photo/Electrochemistry and Photobiology in the Environment, Energy & Fuel, S. Kaneco (Ed.), Research Signpost, to be published in 2007.
38. Single Experimental Setup for High Sensitive Absorption Coefficient and Optical Nonlinearities Measurements, Chapter 5, Debabrata Goswami, New Research on Lasers and Electro-Optics (ISBN: 1-60021-112-7), Nova Publishers, NJ USA (2006).

39. Debabrata Goswami, Editor, "Quantum Computing: Back Action", AIP Press vol. 864, AIP Press, New York, USA, Dec. 2006.
40. Text book of ordinary differential equation, Tata McGraw Hill, 9th Reprint, 2006, Raghavendra, V., Deo, S.G.
41. Dominance Analysis for Local Search Algorithms, by P. Sharma in Advances in Computational Optimisation and its Applications, (Eds K. Deb, P. Chakraborty, N.G. R. Iyengar & S. K. Gupta), University Press Pvt. Ltd., Hyderabad, 2007.
42. Interpolating Gauge, Parameter Differentiability, WT-Identities and the Term, Current Topic in Quantum Field Theory Research, Nova Science Publisher-2007 S. D. Joglekar
43. Negative refraction and subdiffraction imaging. In the Encyclopedia of Mathematical Physics' edited by J-P. Francoise, G Naber and S. Tsun Tsou (Elsevier, Oxford, May 2006) Dr. S. A. Ramakrishna

JOURNAL AND CONFERENCE PAPERS

JOURNAL PAPERS

1. Flow Control in Serpentine Intakes Using Vortex Generator Jets, 3rd AIAA Flow Control Conference, San Francisco, California, June 2006, R.K. Sullerey, Ashish Padhi, Vikram S. Mangat.
2. Active Separation Control in Circular and transitioning S-Duct Diffusers using Vortex Generator Jets to be presented in 2006 ASME Joint US-European Fluids Engineering Summer Meeting, Miami, FL, USA July 17-20, FEDSM 2006-98291, A. M. Pradeep, and R. K. Sullerey.
3. Active Flow Control in Circular and Transitioning S-Duct Diffusers, ASME Transactions, Journal of Fluids Engineering, Vol. 128, Nov.2006,pp.1192-1203, A. M. Pradeep, and R. K. Sullerey.
4. Performance Assessment of Advanced Gas Turbine Cycles for power generation, Accepted for presentation at 5th International Energy Conversion Conference and Exhibits (IECEC), June27-29, 2007, St. Louis, USA, paper no.AIAA-2007-4820, R. K. Sullerey and A. Agarwal.
5. A piezoelectric cylindrical shell under thermal and pressure loads, Trends in Applied Science Research, 2006, 1(3), 214-225, K. Jayakumar, D. Yadav and B. Nageswara Rao.
6. Generalised buckling analysis of composite plates with random material properties using stochastic finite elements, International Journal of mechanical Sciences, 2006, 48, 7, 780-798, Amit K Onkar, C. S. Upadhyay and D. Yadav.
7. A Multi-layer cylindrical shell under Electro-thermo-mechanical loads, Trends in Applied Science Research, 2006, 1(4), 386-401, K. Jayakumar, D. Yadav and B. Nageswara Rao.
8. Probabilistic failure of laminated composite plates using stochastic finite elements, Composite Structures, 2007, 77, 1, 79-91, Amit K Onkar, C. S. Upadhyay and D. Yadav.
9. Non-Linear Vibration Analysis for a Generic Coupled-Laminated Plate with Surface Bonded or Embedded Induced Strain Actuators, Journal of Sound and Vibration, 2007, 301, 846-863, K. Jayakumar, D. Yadav and B. Nageswara Rao.
10. Improvement in Torque and Power Transmission System of Savonius Wind Turbine, IGEC-2, The Second International Green Energy Conference, Univ. of Ontario Institute of Technology, Oshawa, Ontario, Canada, 25-29 June 2006. Book of Abstracts:p.77(Co-authors:Alok Kumar & Sanjeev Gupta), K. Ghosh.
11. One Semester Course in Wind Energy for Advanced Undergraduate and Graduate Engineering Students, IGEC-2, The Second International Green

- Energy Conference, Univ. of Ontario Institute of Technology, Oshawa, Ontario, Canada, 25-29 June, 2006. Book of Abstracts:p.78, K. Ghosh.
12. Zero-Stagger Cascade & Optimal Space Chord Ratio for Wind Turbine of Oscillating Water Column Wave Energy Device, Renewable Energy 2006, Makuhari Messe, Chiba, Japan, 9-13 October, 2006. (Co-author: R. Kalimuthu). [Neither I nor my student, R. kalimuthu could attend the conference because of lack of funding], K. Ghosh.
 13. What Ails Science Education in India, presented at a workshop on Science Education, Homi Bhabha Center for Science Education, TIFR, Mumbai, March 22-24, 2007, K. Ghosh.
 14. Kargils Impending Separation from Ladakh and Merger with Kashmir: Role of Urdu and Divisive Politics, Social Science Abstract, Vol XXX, 2006, Abstracts of papers presented at 30th Indian Social Science Congress, December 26-31, 2006, Karaikkudi, TN, K. Ghosh.
 15. Chaotic response of an airfoil due to aeroelastic coupling and dynamics stall, AIAA Journal, Vol. 45, No. 1, Jan. 2007, pp. 271-280. Laxman, V., and Venkatesan, C.
 16. Electro-thermo-elastic formulation for the analysis of smart structures, Journal of Smart Materials and Structures, Vol. 15, 2006, pp.401-416, Sheikh, N.A., Upadhyay, C.S., and Venkatesan, C.
 17. Symmetrized compact scheme for receptivity study of 2D transitional channel flow- J. Computational Physics, vol. 215(1), 2006, pp 245- 273. A. Dipankar & T.K. Sengupta.
 18. Spatial stability for mixed convection boundary layer over a heated horizontal plate- Studies in Applied Mathematics, vol. 117, 2006, pp 265-298. T.K. Sengupta & K. Venkatasubbaiah.
 19. Spatio-temporal growth of disturbances in a boundary layer and energy based receptivity analysis- Physics of Fluids, vol. 18, 2006, pp 094101-1 to 9. T.K. Sengupta, A. Kameswara Rao & K. Venkatasubbaiah.
 20. Spatiotemporal growing wave fronts in spatially stable boundary layers- Physical Review Letter, vol. 96, 2006, pp 224504-1 to 4. T.K. Sengupta, A. Kameswara Rao & K. Venkatasubbaiah.
 21. Control of flow using Genetic Algorithm for a circular cylinder executing rotary oscillation- Computers and Fluids, vol. 36, 2007 pp. 578-600. T.K. Sengupta, K. Deb, & S.B. Talla
 22. A new compact scheme for parallel computing using domain decomposition- J. Comp. Physics, vol. 220, 2007 pp.654-677. T.K. Sengupta, A. Dipankar & A. Kameswara Rao.

23. Suppression of vortex shedding behind a circular cylinder by another control cylinder- J. Fluid Mechanics, vol. 5, 73, 2007 pp. 171-190. A. Dipankar, T.K. Sengupta & S.B. Talla.
24. Non-unique solution for combined convection assisting flow over a vertical plate- Sadhana, The Indian academy of science, vol. 31, part. 6, 2006 pp. 709-719. K. Venkatasubbaiah, Amrita Mittal & T.K. Sengupta
25. Effect of blockage on critical parameters for flow past a circular cylinder at low Reynolds number International Journal for Numerical Methods in Fluids, 50, 987-1001, (2006), B Kumar and S. Mittal.
26. Euler flow in a supersonic mixed-compression inlet International Journal for Numerical Methods in Fluids, 50 1405-1423, (2006), M.K. Jain and S. Mittal.
27. Bhaskar Kumer and Sanjay Mittal, Prediction of the critical Reynolds number for flow past a circular cylinder, Computer Methods in Applied Mechanics and Engineering, 195, 6046-6058, (2006)
28. Effect of blockage on vortex-induced vibrations at low Reynolds Numbers Journal of Fluids and Structures, 22, 865-876 (2006), Prasanth T.K., Behara Suresh Singh, Satya P, Kumar Rahul and Mittal Sanjay.
29. Flow past bluff bodies: effect of blockage International Journal for Computational Fluid Dynamics 20(3-4), 163-174 (2006), Mittal Sanjay, Singh Satya P., Kumar Bhaskar and Kumer Rahul.
30. Excitation of shear layer instability at low Reynolds number via an unsteady inflow, Journal of Visualization, Vol 9, No.3 243 (2006), S. Mittal.
31. Finite Element Computation of Turbulent Flow past a Multi-Element Airfoil International Journal for Computational Fluid Dynamics, 20(8), 563-577, (2006), Sanjay Mittal, Ashoke De and Vinod Kumar.
32. A stabilized finite element method for shape optimization in low Reynolds number flows in press, International Journal for Numerical Methods in Fluids, D.N. Srinath, Sanjay Mittal.
33. A Test Case on Implementation of Trajectory Correction Flight Control System Using Pulse Jet on An Artillery Rocket, Defense Science Journal, INDIA - Accepted, S.K. Gupta, S. Saxena, Ankur Singhal, A.K. Ghosh.
34. Longitudinal Parameter Estimation using Wind Tunnel and Simulated Flight Data of Tactical Missile (Accepted), Journal of Aerospace Sciences and Technologies, May 2007, S. Singh and A.K. Ghosh.
35. Modified delta Method for Parameter Estimation from Real Flight Data of an Aircraft using Neural Networks (Accepted), The Aeronautical Journal, UK, (submitted on Sep., 2006), S. Singh and A. K. Ghosh.
36. Trajectory and Attitude Simulation for Mars Aerocapture and Aerobraking, Journal of Spacecraft and Rockets, Vol.43, No.3, May-June 2006. (Authors: Mrinal Kumar and Ashish Tewari)

37. Controlled Atomization using a twin-fluid swirl atomizer, *Experiments in Fluids* (2006) 41: 649-663, J. Karnawat and A. Kushari.
38. Spectroscopic Analysis of a Premixed LPG-Air Flame, *Institution of Engineers (India), Mechanical Journal*, April 2006, Vol. 87, pp:8-12, Gupta R, Garg V and A. Kushari.
39. Deformation banding and shear banding in single crystals, *Acta Materialia*, 2006. 54(17):4565-4574, S. Mahesh.
40. Lafora disease proteins, malin and laforin, are recruited to aggresomes in response to proteasomal impairment. *Human Molecular Genetics*, Epub doi: 10.1093/hmg/ddm006, 2007, S. Mittal, D. Dubey, K. Yamakawa, and S. Ganesh.
41. Association of gene polymorphism with genetic susceptibility to stroke in Asian populations: a meta-analysis. *J. Human Genetics*, 52 (3): 205-219, 2007, I Banerjee, V Gupta, and S. Ganesh.
42. Novel NHLRC1 mutations and genotype-phenotype correlations in patients with Laforas progressive myoclonus epilepsy. *J. Medical Genetics*, 43, e48, 2006, Singh S, Sethi I, Francheschetti S, Riggio C, Avanzini G, Yamakawa K, Delgado-Escueta AV, and Ganesh S.
43. Genomic and evolutionary insights into genes encoding proteins with single amino acid repeats. *Molecular Biology Evolution*, 23, 1357-1369, 2006, Siwach P, Pophaly S. D, and Ganesh S.
44. Recent advances in the molecular basis of Laforas progressive myoclonus epilepsy. *J. Human Genetics* 51, 1-8, 2006, Ganesh S, Puri R, Singh S, Mittal S, and Dubey D.
45. Urokinase separation from cell culture broth of human kidney cell line. *International J. Biological Science* 3, 64-70, 2007, Bansal, V., Roychoudhury, P. K. and Kumar, A..
46. Metal-chelate affinity precipitation of proteins using responsive polymers. *Nature Protocols*, 2, 213-220, 2007, Mattiasson, B., Kumar, A., Ivanov, A. E. and Galaev, I. Yu..
47. Detachment of affinity captured bioparticles by elastic deformation of macroporous hydrogel. *Proc National Academy of Science USA*, 103, 849-854, 2006, Dainiak, M., Kumar, A., Galaev, I. Yu. and Mattiasson, B..
48. Integrated Bioprocess for the production and isolation of urokinase from animal cell culture using supermacroporous cryogels. *Biotechnology Bioengineer* 93, 636-646, 2006, Kumar, A., Bansal, V., Nandakumar, K. S., Galaev, I. Yu., Roychoudhury, P. K., Holmdahl, R. and Mattiasson, B..
49. Supermacroporous cryogel matrix for integrated protein isolation: IMAC purification of urokinase from cell culture broth of a human kidney cell line. *J.*

- Chromatography A 1103, 35-42, 2006, Kumar, A., Bansal, V., Andersson, J., Roychoudhury, P. K. and Mattiasson, B..
50. Synthesis, regulation and production of urokinase using mammalian cell culture: A comprehensive review. *Biotechnology Advances*, 24, 514-528, 2006, Roychoudhury, P. K., Khaparde, S. S., Mattiasson, B. and Kumar, A. .
 51. Recovery of urokinase from integrated mammalian cell culture cryogel bioreactor and purification of the enzyme using p-aminobenzamidine affinity chromatography. *J Molecular Recognition* 19, 332-339, 2006, Bansal, V., Roychoudhury, P. K., Mattiasson, B. and Kumar, A..
 52. Affinity binding of inclusion bodies on supermacroporous monolithic cryogels using labeling with specific antibodies. *J. Biotechnology* 122, 216-225, 2006, Ahlqvist, J., Kumar, A., Sundström, H., Ledung, E., Hörnsten, E. G., Enfors, S-O., Mattiasson, B..
 53. Monitoring the production of inclusion bodies during fermentation and ELISA analysis of intact inclusion bodies using 96-minicolumn cryogel microplates. *Analytical Biochemistry* 354, 229-237, 2006, Ahlqvist, J., Dainiak, M., Kumar, A., Sundström, H., Ledung, E., Hörnsten, E. G., Enfors, S-O., Galaev, I. Yu., Mattiasson, B..
 54. A survey of mRNA sequences with a non-AUG start codon in RefSeq database. *J. Biomolecular Structural Dynamics* 24, 33-41, 2006, Tikole and R. Sankararamakrishnan.
 55. Recognition of GPCRs by peptide ligands and membrane compartments theory: Structural studies of endogenous peptide hormones in membrane environment. *Bioscience Reports* 26, 131-158, 2006, R. Sankararamakrishnan.
 56. Circularly Permuted GTP Binding Proteins Need Additional domains for GTP hydrolysis. *Nucleic Acids Research*. 34, 2196-2205, 2006, Baskaran Anand, Sunil Kumar Verma, Balaji Prakash.
 57. Host-generated double stranded RNA induces RNAi in plant-parasitic nematodes and protects the host from infection. *Molecular and Biochemical Parasitology* 148: 219-222, 2006, B. C. Yadav, K. Veluthambi, and K. Subramaniam.
 58. Translational repression restricts expression of the *C. elegans* Nanos homolog NOS-2 to the embryonic germline. *Developmental Biology* 292: 244-252, 2006, DAgostino, C. Merritt, P-L. Chen, G. Seydoux, K. Subramaniam.
 59. Fat and Wingless signaling oppositely regulate epithelial cell-cell adhesion and distal wing development in *Drosophila*. *Development* 133, 925-935, 2006, Manish Jaiswal, Namita Agrawal and Pradip Sinha.

60. Nanofibers and their applications in tissue engineering. *International Journal of Nanomedicine*. 1, 15-30, 2006, Rajesh Vasita and Dharendra S. Katti.
61. Growth factor-delivery systems for tissue engineering: a materials perspective. *Expert Review of Medical Devices*. 3(1), 29-47, 2006, Rajesh Vasita and Dharendra S. Katti.
62. Direct calculation of solid-vapor coexistence points by thermodynamic integration: Application to single component and binary systems, *Journal of Chemical Physics*, 124 (18), (2006), 184106, P. A. Apte and I. Kusaka.
63. Mechanism of nanoparticle formation in self-assembled colloidal templates: Population balance model and Monte Carlo simulation, *J. Physical Chemistry B*, 110(33), (2006), 16471-16481, M. Ethayaraja, K. Dutta, R. Bandyopadhyaya.
64. Microstructural and mechanical properties of Silica-PEPEG polymer composite xerogels, *Acta Materialia*, 54(19), (2006), 5231-5240, M. M. Kulkarni, R. Bandyopadhyaya, B. Bhattacharya, A. Sharma.
65. Population balance models and Monte Carlo simulation for nanoparticle formation in water-in-oil microemulsions: Implications for CdS synthesis, *J. American Chemical Society*, 128(51), (2006), 17102-17113, M. Ethayaraja, R. Bandyopadhyaya.
66. Nanoparticle formation in water-in-oil microemulsions: Experiments, mechanism and Monte Carlo simulation, *Langmuir*, 23(6), (2007), 3418-3423, M. Ethayaraja, K. Dutta, D. Muthukumar, R. Bandyopadhyaya.
67. CdS-ZnS core-shell nanoparticle formation: Experiment, mechanism and simulation, *J. Physical Chemistry C*, 111(8), (2007), 3246-3252, M. Ethayaraja, C. Ravikumar, D. Muthukumar, K. Dutta, R. Bandyopadhyaya.
68. Mechanism and Modeling of Nanorod Formation from Nanodots, *Langmuir*, (2007) (on line) DOI: 10.1021/1a070126a, M. Ethayaraja, R. Bandyopadhyaya.
69. Poly (ether-block-amide) membrane for pervaporative separation of pyridine present in low concentration in aqueous solution, *J. Membrane Sci.*, 286, (2006) 115-124, Mrinal K. Mandal and P. K. Bhattacharya.
70. Treatment of leather plant effluent by membrane separation processes, *Separ. Sci. Technol.*, 41(15), (2006) 3329-3348, Jain S. K., M. K. Purkait, P. K. Bhattacharya, S. De.
71. Analysis of Phase Change during Pervaporation with Single Component Permeation, *Colloids and Surfaces A: Physicochem. Eng. Aspects* 290, (2006) 263-272, Sumesh P. T. and P. K. Bhattacharya.
72. Parameter estimation and performance study during ultrafiltration of Kraft Black Liquor, *Separ. Purif. Technol.*, 51(3), (2006) 247-257, C. Bhattacharjee, P. Sarkar, S. Datta, B. B. Gupta and P. K. Bhattacharya.

73. Performance study on ultrafiltration of Kraft Black Liquor and membrane characterization using Spiegler-Kedem model, *Korean J. Chem. Eng.*, 23(4), (2006) 617-624, Chiranjib Bhattacharjee, B. B. Gupta and P. K. Bhattacharya.
74. Ultrafiltration of black liquor using rotating disk membrane module, *Separ. Purif. Technol.*, 49(3), (2006) 281-290, Chiranjib Bhattacharjee and P. K. Bhattacharya.
75. Application of positron annihilation: study of pervaporation dense membranes, *Polymer*, 47, (2006) 1300-1307, S. V. Satyanarayana, V.S. Subrahmanyam, H.C. Verma, A. Sharma and P.K. Bhattacharya.
76. Effects of Reynolds and Prandtl numbers on the heat transfer across a square cylinder in the steady flow regime, *Numerical Heat Transfer: Part A*, 49, (2006) 717-731, A. K. Dhiman, R. P. Chhabra, A. Sharma and V. Eswaran.
77. A numerical study on the forced convection heat transfer from an isothermal and isoflux sphere in the steady symmetric flow regime, *Int. J. Heat Mass Transfer*, 49, (2006) 984-994, S. D. Dhole, R. P. Chhabra and V. Eswaran.
78. Sedimentation of a circular disk in power law fluids, *Journal of Colloid and Interface Science*, 295, (2006) 520-527, S. Nitin and R. P. Chhabra.
79. Drag on non-spherical particles in power law non-Newtonian media, *Int. Journal of Mineral Processing*, 78, (2006) 110-121, P. Rajitha, R. P. Chhabra, N. E. Sabiri and J. Comiti.
80. An analytical model for the prediction of power consumption for shear-thinning fluids with helical ribbons and helical screw ribbon impellers, *Chem. Engng. Sci.*, 61, (2006) 3250-3259, G. Delaplace, R. Guerin, J.-C. Leuliet and R. P. Chhabra.
81. Momentum and heat transfer from an asymmetrically confined circular cylinder in a plane channel, *Heat and Mass Transfer*, 42, (2006)1037-1048, S. Mettu, N. Verma and R. P. Chhabra.
82. Steady flow of power law fluids across a square cylinder, *Chem. Eng. Res. Des.*, 84, (2006) 300-310, A. K. Dhiman, R. P. Chhabra and V. Eswaran.
83. Flow of power law fluids past a sphere at intermediate Reynolds numbers, *Ind. Eng. Chem. Res.*, 45, (2006) 4773-4781, S. D. Dhole, R. P. Chhabra and V. Eswaran.
84. Steady flow of Power law fluids across a circular cylinder, *Can. J. Chem. Eng.*, 84, (2006) 406-421, R. P. Bharti, R. P. Chhabra and V. Eswaran.
85. Effect of power law index on critical parameters for power law fluid flow across an unconfined circular cylinder, *Chem. Eng. Sci.*, 61, (2006) 6035-6046, P. Sivakumar, R. P. Bharti and R. P. Chhabra.
86. Effect of blockage on drag and heat transfer from a single sphere and an in-line array of three spheres, *Powder Technology*, 168, (2006) 74-83, A. Maheshwari, R. P. Chhabra and G. Biswas.

87. Forced convection heat transfer from a sphere to non-Newtonian power law fluids, *A.I.Ch.E Journal*, 52, (2006) 3658-3667, S. D. Dhole, R. P. Chhabra and V. Eswaran.
88. Sedimentation in emulsions of mono-size droplets at moderate Reynolds numbers, *Chem. Eng. Res. Des.*, 84, (2006) 1180-1193, Nanda Kishore, R. P. Chhabra and V. Eswaran.
89. Drag of a spherical bubble rising in power law fluids at intermediate Reynolds numbers, *Ind. Eng. Chem. Res.*, 46, (2007) 939-946, S. D. Dhole, R. P. Chhabra and V. Eswaran.
90. Steady flow of power law fluids across an unconfined elliptical cylinder, *Chem. Eng. Sci.*, 62, (2007) 1682-1702, P. Sivakumar, R. P. Bharti and R. P. Chhabra.
91. Steady forced convection heat transfer from a heated circular cylinder to power-law fluids, *Int. J. Heat Mass Transfer*, 50, (2007) 977-990, R. P. Bharti, R. P. Chhabra and V. Eswaran.
92. Ethane and Propane Oxidation over Supported V_2O_5/TiO_2 Catalysts: Analysis of Kinetic Parameters, *I & EC, Research*, 46, (2007) 70, T.V.M. Rao and G. Deo.
93. Kinetic parameter estimation for supported vanadium oxide catalysts for the propane ODH reaction: Understanding the effect of loading and support, *Catal. Today*, 118, (2006) 288, D. Shee, T.V.M. Rao and G. Deo.
94. The Effect of Chromium, Molybdenum and Tungsten Oxide Modifiers on V_2O_5/Al_2O_3 Catalyst: Methanol Oxidation and Propane ODH, *J. Catal.* 240(2), (2006) 151, B. Mitra, I.E. Wachs and G. Deo.
95. Embedded Template Assisted Fabrication of Complex Micro-channels in PDMS and Design of a micro-fluidic adhesive, *Langmuir*, 22, (2006) 10291-10295, Mohan K. S. Verma, Abhijeet Majumder and Animangsu Ghatak.
96. Confinement induced instability of thin elastic film. *Physical Review E*, 73, (2006) 041601-1 – 041606-6, A. Ghatak.
97. Land Use Planning in India, *Journal of Hazardous Materials (Elsevier)*, 130 (3), (2006), 300 – 306, J.P. Gupta.
98. Water Requirements in Tank Farm Fire, *Journal of Petroleum Science and Engineering*, 55 (1-2), (2007), 167 – 173, Nitesh Jain and J. P. Gupta.
99. Securing Oil and Gas Infrastructure, *Journal of Petroleum Science and Engineering*, 55 (1-2), (2007), 174 – 186, S. Bajpai and J.P. Gupta.
100. Some Practical Aspects of Designing a Laboratory Scale Batch Polymerization Reactor without Gas Entrapment and Interfacing with Virtual Instrumentation, *ISA Trans.*, 45, (2006), 259-269, S. A. Bhat, D. N. Saraf, S. Gupta and S. K. Gupta.

101. Use of Agitator Power as a Soft-Sensor for Bulk Free Radical Polymerization of Methyl Methacrylate in Batch Reactors, *Indus. Eng. Chem. Res.*, 45, (2006), 4243-4255, S. A. Bhat, D. N. Saraf, S. Gupta and S. K. Gupta.
102. Multi-objective Optimization of the Operation of an Industrial Low-density Polyethylene Tubular Reactor using Genetic Algorithm and its Jumping Gene Adaptations, *Indus. Eng. Chem. Res.*, 45, (2006), 3182-3199, N. Agarwal, G. P. Rangaiah, A. K. Ray and S. K. Gupta - Also presented at the Third Intl. Conf. on Computational Intelligence, Robotics and Autonomous Systems (CIRAS 2005), Singapore, Dec 13-16, 2005.
103. Simultaneous Optimization of the Performance of Flotation Circuits and their Simplification using the Jumping Gene Adaptations of Genetic Algorithm-II: More Complex Problems, *Intl. J. Mineral Processing*, 79, (2006), 149-166, C. Guria, M. Varma, S. P. Mehrotra and S. K. Gupta.
104. Viscosity of Bulk Free Radical Polymerizing Systems under Near-isothermal and Non-Isothermal Conditions, *Polymer*, 47, (2006), 3028-3035, J. S. Sangwai, D. N. Saraf and S. K. Gupta.
105. On-line Optimizing Control of Bulk Free Radical Polymerization Reactors under Temporary Loss of Temperature Regulation: an Experimental Study on a 1-Liter Batch Reactor, *Indus. Eng. Chem. Res.*, 45, (2006), 7530-7539, S. A. Bhat, D. N. Saraf, S. Gupta and S. K. Gupta.
106. Multi-objective Optimization of the Dynamic Operation of an Industrial Steam Reformer using the Jumping Gene Adaptations of Simulated Annealing, *Asia-Pacific J. Chemical Eng. (Wiley Interscience)*, 1, (2006), 21-31, B. Sankararao and S. K. Gupta.
107. Dynamic Viscoelastic Properties of Bulk Free Radical Polymerizing Systems under Near-isothermal and Non-Isothermal Conditions, *Rheol. Acta*, 46, (2007), 455-468, J. S. Sangwai, D. N. Saraf and S. K. Gupta.
108. Multi-Objective Optimization of Fuel Oil Blending using the Jumping Gene Adaptation of Genetic Algorithm, *Fuel Proc. Tech.*, 88, (2007), 51-63, D. K. Khosla, S. K. Gupta and D. N. Saraf.
109. Multi-objective Optimization of an Industrial Fluidized-bed Catalytic Cracking Unit (FCCU) using two Jumping Gene Adaptations of Simulated Annealing, *Comp. Chem. Eng.*, 00, (2007), 0000-0000, B. Sankararao and S. K. Gupta.
110. Modeling and Simulation of Fixed Bed Adsorbers (FBAs) for Multi-component Gaseous Separations, *Comp. Chem. Eng.*, 00, (2007), 0000-0000, B. Sankararao and S. K. Gupta.
111. Design Stage Optimization of an Industrial Low-Density Polyethylene Tubular Reactor for Multiple Objectives using NSGA-II and its Jumping Gene Adaptations, *Chem. Eng. Sci.*, 62, (2007), 2346-2365, N. Agarwal, G. P. Rangaiah, A. K. Ray and S. K. Gupta.

112. Multi-objective Optimization of Pressure Swing Adsorbers (PSAs) for Air Separation, *Indus. Eng. Chem. Res.*, 00, (2007), 0000-0000, B. Sankararao and S. K. Gupta.
113. On-line Optimizing Control of Free Radical Bulk Polymerization of Methyl Methacrylate (MMA) in a Rheometer-Reactor Assembly, *Chem. Eng. Sci.*, 00, 0000-0000 (2007), J. S. Sangwai, D. N. Saraf and S. K. Gupta.
114. Optimal Synthesis of an Industrial Fluorspar Beneficiation Plant using a Jumping Gene Adaptation of Genetic Algorithm, *Intl. J. Mineral Processing*, submitted (2007), C. Guria, M. Varma, S. K. Gupta and S. P. Mehrotra.
115. Jumping Gene Adaptations (saJG and sjG) of the Elitist Non-dominated Sorting Genetic Algorithm (NSGA-II) and Their Use in the Multi-objective Optimal Design of Shell and Tube Heat Exchangers, *Chem. Eng. Res. Des.*, submitted (2007), Aaditya Agarwal and S. K. Gupta.
116. Steady state reactive distillation simulation using the Naphtali-Sandholm method, *Canadian Journal of Chemical Engineering*, 85(1), (2007) 75-82, R. Singh, M. V. Pavan Kumar and N. Kaistha.
117. Temperature based inferential control of a methyl acetate reactive distillation column, *Chemical Engineering Research and Design*, Accepted, March 2007, M. V. Pavan Kumar and N. Kaistha.
118. Valve positioning control for process through-put maximization, *Chemical Engineering Research and Design*, Accepted, March 2007, S. K. Jha and N. Kaistha.
119. Multi-component Liquid-Liquid Equilibria prediction for Aromatic Extraction Systems using COSMO-RS, *Industrial Engineering Chemistry Research*, 46(4), (2007), 1292-1304. Tamal Banerjee, Ranjan Kumar Sahoo, Swagat.S, Kumar.Rakesh, Ashok Khanna.
120. Infinite Dilution Activity Coefficients for Trihexyltetradecyl Phosphonium Ionic Liquids: Measurements and COSMO-RS Prediction, *Journal of Chemical Engineering and Data*, 51,(2006), 2170-2177, Tamal Banerjee, Ashok Khanna.
121. Prediction of Binary VLE of Imidazolium based ionic liquids by COSMO-RS, *Industrial Engineering Chemistry Research*, 45(2006), 3207-3219, Tamal Banerjee, Ashok Khanna.
122. Prediction of Binary VLE of Imidazolium based ionic liquids by COSMO-RS, (Erratum to document cited in CA144:496318), *Industrial Engineering Chemistry Research*, 45(20), (2006), 6876. Tamal Banerjee, Ranjan Kumar Sahoo, Swagat.S, Kumar.Rakesh, Ashok Khanna.
123. Improved Binary Parameters using GA for Multi-Component Aromatic Extraction: NRTL Model without and with Closure Equations, *Fluid Phase Equilibria*, 239, (2006), 107-119, Ranjan Kumar Sahoo, Tamal Banerjee, Syed Akhlaq Ahmad, and Ashok Khanna.

124. Separation of Cr(VI) by zeolite-clay composite membranes modified by reaction with Nox, *Separation and Purification Technology*, 52(3), (2007), 423-429, A. Shukla, A. Kumar.
125. Depolymerization of HDPE to wax in the presence of a catalyst formed by homonuclear macrocyclic zirconium complex chemically bonded to alumina support, *Applied Catalysis A-General*, 303(1), (2006), 9-17, S. Lal, K.S. Anisia, and A. Kumar.
126. Preparation and characterization of iron salt embedded electro dialysis Analcime-C zeolite clay composite membrane, *Journal Of Membrane Science*, 275 (1-2), (2006), 110-118, M. Kumar, S. Agarwal, G. Pugazhenthii, A. Kumar.
127. Hydrolysis of olive oil using lipase bonded to modify carbon membrane *AICHE Journal* 52 (4), (2006), 1611-1620, S. Sachan, S. Sachdeva, G. Pugazhenthii, A. Kumar.
128. Electrohydrodynamic instability of a confined viscoelastic liquid film, *Journal of Non-Newtonian Fluid Mechanics*, 143, (2007) 120 - 130, G. Tomar, V. Shankar, A. Sharma and G. Biswas.
129. Stability of gravity-driven free-surface flow past a deformable solid at zero & finite Reynolds number, *Physics of Fluids*, 19, (2007) 024105 (11 pages), Gaurav and V. Shankar.
130. Suppression or enhancement of interfacial instability in two-layer plane Couette flow of FENE-P fluids past a deformable solid, *Journal of Non-Newtonian Fluid Mechanics*, 141, (2007), 43-58, Janakiramulu Adepu and V. Shankar.
131. Improved stability of nanocrystalline porous silicon after coating with a polymer, *J. Applied Phys.* 100, (2006), 024308, N. P. Mandal, A. Sharma and S. C. Agarwal.
132. Research on nanopattern formation in India, *IUMRS Facets* 5, (October 2006) 12-16, A. Sharma.
133. Instability and dynamics of thin viscoelastic liquid films, *Euro. Phys. J. E – Soft Matter* 20, 185-200 (2006), G. Tomar, V. Shankar, A. Shukla, A. Sharma and G. Biswas.
134. Nonlinear instabilities and pathways of rupture in thin liquid bilayers, *J. Chem. Phys.* 125, 054711 (2006), D. Bandyopadhyay and A. Sharma.
135. Elastic contact induced self-organized patterning of hydrogel films, *Macromolecules* 39, (2006), 3365-3368, M. Gonuguntala, A. Sharma and S.A. Subramanian.
136. Contact Instability in adhesion and debonding of thin elastic films, *Phys. Rev. Lett.* 97, (2006) 018303, M. Gonuguntala, A. Sharma, J. Sarkar, S. A. Subramanian, M. Ghosh and V. Shenoy.

137. [Control of self-organized contact instability and patterning in soft elastic films](#), *Langmuir* 22, (2006), 7066-7071, M. Gonuguntala, A. Sharma, R. Mukherjee and S. A. Subramanian.
138. Confinement-induced instability and adhesive failure between dissimilar thin elastic films *Euro. Phys. J. E-Soft Matter* 20, (2006), 47-53, J.-Y. Chung, K. Kim, M. K. Chaudhury, J. Sarkar and A. Sharma.
139. Electric field controlled surface instabilities in soft elastic films, *Adv. Materials*. 18, (2006), 660-663, N. Arun, A. Sharma, V. Shenoy and K. S. Narayan.
140. Spinodal instability and pattern formation in thin liquid films confined between two plates, *J. Colloid Interface Sci.* 296, (2006), 220-232, R. Verma, A. Sharma, I. Banerjee and K. Kargupta.
141. Preparation and characterization of ACF for the adsorption of BTX and SO₂, *Chem. Eng. & Processing* 45, (2006), 1-13, V. Gaur, A. Sharma and N. Verma.
142. Vapor-liquid phase coexistence curves for Morse fluids. *Fluid. Phase Equil.* , 248, (2006), 1-6, J. K. Singh, J. Adhikari and S. K. Kwak.
143. Surface tension and vapor liquid phase coexistence of confined square-well fluid. *J. Chem. Phys.*, 126, (2007), 024702, J. K. Singh and S. K. Kwak.
144. Simulation of micro and macro transport in a packed bed of porous adsorbents by lattice Boltzmann methods, *Chem Engg. Sci.*, Accepted (2007), N. Verma, K. Salem, D. Mewes.
145. Multistage fluidized bed column: hydrodynamic study, *Chem Engg Process.*, Accepted (2007), A. Singh, R. Verma, K. Kishore, and N. Verma.
146. Removal of SO₂ by activated carbon fiber impregnated with transition metals, *Can. J. Chem. Eng.*, 85(2), (2007), 188-198, V. Gaur, A. Sharma, and N. Verma.
147. Simulation of 3D velocity and concentration profiles in a packed bed adsorber by lattice Boltzmann methods, *Chem. Engg Sci.*, 61, (2006), 7754-7765, N. Manjhi, N. Verma, K. Salem, D. Mewes.
151. Frameworks to Represent the Uncertainty when Determining the Level of Service. *Transportation Research Record*, 1968, pp. 53-62, 2007, Shinya Kikuchi and Partha Chakroborty.
152. Simple Model to Predict the Structural Condition of Asphalt Concrete Pavements at the Network Level, *Proceedings of the 86th Annual Meeting of the Transportation Research Board*, Washington D.C., USA, 2007, Partha Chakroborty, Pradeep Agarwal, and Animesh Das.
153. The Need for a Comprehensive Traffic Flow Model and the Indian Context. *Proceedings of the International Conference CENeM 2007*, Shibpur, India, 2007, Partha Chakroborty and Akhilesh Maurya.
154. Models of Vehicular Traffic: An Engineering Perspective. *Physica A: Statistical Mechanics and its Applications*, Vol. 372, pp. 151-161, 2006, Partha Chakroborty.

155. Place of Possibility Theory in Transportation Analysis. *Transportation Research, Part B*, Vol. 40, pp. 595-615, 2006, Shinya Kikuchi and Partha Chakroborty.
156. A Simple Model for Structural Evaluation of Asphalt Concrete Pavements at the Network Level. *ASCE Journal of Infrastructure Systems*, Vol. 12, No. 1, pp. 41-49, 2006, P. K. Agarwal, Animesh Das, and Partha Chakroborty.
157. Pavement design with central plant hot-mix recycled asphalt mixes, *Construction & Building Materials*, Vol. 21(5), 2007, pp.928-936, Aravind, K. and Das, A.
158. Determination of Community Structure through Deconvolution of PLFA-FAME Signature of Mixed Population, *Biotechnology Bioengineering*, V. 96, No. 3, pp409-420, 2007, Dey, D. K.; Guha, S.
159. Influence of Extrinsic Factors on Granulation in UASB Reactor, *Applied Microbiology and Biotechnology*, V. 71, No. 2, pp 145- 154, 2006, Tiwari, M. K.; Guha, S.; Harendranath, C. S.; Tripathi, S.
160. Sequential batch culture studies for the Decolorisation of Reactive dye by *Coriolus versicolor*, *Bioresource Technology*, V. 97, No. 3, pp 396-400, 2005, Sanghi, R., Dixit, A. and Guha, S..
161. Collection of Depth-Specific Groundwater Samples from an Arsenic Contaminated Aquifer in West Bengal, India, *Environ. Eng. Sci.*, V. 22, No. 6, pp870-880, 2005, Guha, S.; Raymahashay, B. C.; Banerjee, A.; Acharyya, S. K.; Gupta, A.
162. Enhanced granulation by Natural Ionic Polymer Additives in UASB reactor treating low-strength wastewater, *Water Research*, V. 39, pp 3801-3810, 2005, Tiwari, M. K.; Guha, S.; Harendranath, C. S.; Tripathi, S..
163. Removal of Chromium from Synthetic Plating Waste by Zero-Valent Iron and Sulfate Reducing Bacteria, *Water Environment Research*, V. 77, pp 411-416, 2005, Guha, S. and Bhargava, P..
164. Distortional buckling in monosymmetric I-beams, *Thin-Walled Structures*, 44, 2006, 51-56, Avik Samanta and Ashwini Kumar.
165. Distortional buckling in monosymmetric I-beams: Reverse-curvature bending, *Thin-Walled Structures*, 44, 2006, 721-25, Ashwini Kumar and Avik Samanta.
166. A repository of earth resource information-CORONA satellite programme, *Current Science*, 92(7), 926-932, 2007, Dashora, A., Lohani, B., Malik J. N..
167. GCP collection for CORONA satellite photographs: Issues and Methodology, *JISRS*, 34(2), 153-160, 2006, Dashora, A, Sreenivas, B., Lohani, B., Mallik J. N., and Afroj.
168. Extraction of tidal channel networks from aerial photographs alone and combined with laser altimetry, *International Journal of Remote Sensing*, 27(1), 5-25, 2006, Lohani, B., Mason, D. C., Scott, T. R., and Sreenivas B..

169. Tracing of tidal channels through remote sensing, *Geospatial Today*, 5(3), 2006, Lohani, B., and Sreenivas, B.
170. 3D visualization of LiDAR data, *GIM International*, 21(2), 15-17, 2007, Ghosh, S., and Lohani, B..
171. Uniaxial Compressive Stress-Strain Model for Clay Brick Masonry, *Current Science*, Vol. 92, No. 4, 25 February, 2007, pp. 497-501, Kaushik, H.B, Rai, D.C, and Jain, S. K..
172. Review of Seismic Codes on Liquid Containing Tanks, *Earthquake Spectra*, Vol. 23, No. 1, February, 2007, pp. 239-260, Jaiswal, O.R., Rai, D.C. and Jain, S.K..
173. Seismic design of beam-column joints in RC moment resisting frames- Review of code, *Structural Engineering and Mechanics*, Vol 23, No 5, pp. 579-597, Uma S R and Jain S K.
174. Impact of the Great 26 December 2004 Sumatra Earthquake and Tsunami on Structures in Port Blair, *Journal of Performance of Constructed Facilities*, American Society of Civil Engineers, Vol. 21, No. 2, April, 2007, pp.128-142, Kaushik, H.B and Jain, S.K..
175. Performance of structures in the Andaman and Nicobar Islands (India) during the December 2004 great Sumatra earthquake and Indian Ocean tsunami, *Earthquake Spectra*, , Vol 22 (S3): S321-S354, June 2006, C.V.R. Murty, Durgesh C. Rai, Jain, S.K, Kaushik, H.B, Mondal, G, and Dash, S.R..
176. The Effect of the December 2004 Great Sumatra Earthquake and Indian Ocean Tsunami on Transportation Systems in Indias Andaman and Nicobar Islands, *Earthquake Spectra*, Vol 22 (S3): S561-S579, June 2006, Rai, D.C, Murty, C.V.R, Jain, S.K., Kaushik, H.B, Mondal, G, Dash, S.R, Tang, A, Yashinsky M, and Eskijian M..
177. Lifeline Systems in the Andaman and Nicobar Islands (India) after the December 2004 great Sumatra earthquake and Indian Ocean tsunami, *Earthquake Spectra*, Vol 22 (S3): S581-S606, June 2006, Tang, A., Rai, D.C., Ames, D., Murty C. V. R., Jain, S. K., Dash, S.R., Kaushik H. B., Mondal, G., Muruges, G., Plant G., McLaughlin, J., Yashinsky, M., Eskijian, M., and Surrampalli R.
178. Response and Recovery in India after the December 2004 Great Sumatra Earthquake and Indian Ocean Tsunami, *Earthquake Spectra*, , 22 (S3): S731-S758, June 2006, Murty, C.V.R. , Jain, S.K, Sheth, A.R., Jaiswal, A. and Dash, S.R.
179. Proposed Codal Provisions for Design and Detailing of Beam-Column Joints in Seismic Regions, *The Indian Concrete Journal*, Vol. 80(8), 27-35, August, 2006, Jain, S.K. Ingle, R. K and Mondal, G.
180. A Case for Use of Dynamic Analysis in Designing for Earthquake Forces, *Current Science*, Vol. 91 (7), 874-877, 10 October 2006, Kaushik, H.B, Rai, D.C., and Jain, S. K..

181. Code Approaches to Seismic Design of Masonry Infilled Reinforced Concrete Frames: A State-of-the-Art Review, *Earthquake Spectra*, 22(4), November 2006, pp. 961-983, Kaushik, H. B., Rai, D. C., and Jain, S. K.
182. Coseismic and postseismic creep in the Andaman Islands associated with the 2004 Sumatra-Andaman earthquake. *Geophysical Research Letter*, Vol. 34, L01310, doi:10.1029/2006GL028200, 2007, Kayanne, H., Ikeda, Y., Echigo, T., Shishikura, M., Kamataki, T., Satake, K., Malik, J. N., Shaikh, B. R., Chakraborty, G. K., and Ghosh Roy, A. K..
183. Active tectonic influence on the evolution of drainage and landscape: Geomorphic signatures from frontal and hinterland areas along Northwestern Himalaya, India. *Journal of Asian Earth Sciences*, 29(5-6): 604-618, 2007, Malik, J. N. and Mohanty, C..
184. Landscape Changes in the Andaman and Nicobar Islands (India) after the December 2004 Great Sumatra Earthquake and Indian Ocean Tsunami. *Earthquake Spectra*, EERI, 22(S3):S43-S66, 2006, Malik, J. N., Murty, C. V. R. and Rai, D..
185. Liquefaction around Jammu caused by October 8, 2005 Muzaffarabad earthquake of Mw 7.6. *Journal of Geological Society of India*, 69: 39-41, 2007, Malik, J. N., Sahoo, A. K., Shah, A. A., Rawat, A., and Chaturvedi, A..
186. Landscape Changes in the Andaman and Nicobar Islands (India) after the December 2004 Great Sumatra Earthquake and Indian Ocean Tsunami, paper in special issue on 2004 Indian Ocean Earthquake and Tsunamis Reconnaissance Report, *Earthquake Spectra*, A Professional Journal of the Earthquake Engineering Research Institute (USA), Volume 22, No. S3, pages S43-S66, June 2006, Malik, J. N., Murty, C. V. R., and Rai, D. C..
187. Performance of Structures in the Andaman and Nicobar Islands (India) during the December 2004 Great Sumatra Earthquake and Indian Ocean Tsunami, paper in special issue on 2004 Indian Ocean Earthquake and Tsunamis Reconnaissance Report, *Earthquake Spectra*, A Professional Journal of the Earthquake Engineering Research Institute (USA), Volume 22, No. S3, pages S321-S354, June 2006, Murty, C. V. R., Rai, D. C., Jain, S. K., Kaushik, H. B., Mondal, G., and Dash, S. R.
188. The Effect of the December 2004 Great Sumatra Earthquake and Indian Ocean Tsunami on Transportation Systems in Indias Andaman and Nicobar Islands, paper in special issue on 2004 Indian Ocean Earthquake and Tsunamis Reconnaissance Report, *Earthquake Spectra*, A Professional Journal of the Earthquake Engineering Research Institute (USA), Volume 22, No. S3, pages S561-S579, June 2006, Rai, D. C., Murty, C. V. R., Jain, S. K., Kaushik, H. B., Mondal, G., Dash, S. R., Tang, A., Yashinsky, M., and Eskijian, M.

189. Lifeline Systems in the Andaman and Nicobar Islands (India) after the December 2004 Great Sumatra Earthquake and Indian Ocean Tsunami, paper in special issue on 2004 Indian Ocean Earthquake and Tsunamis Reconnaissance Report, *Earthquake Spectra*, A Professional Journal of the Earthquake Engineering Research Institute (USA), Volume 22, No. S3, pages S581-S606, June 2006, Tang,A.,Rai,D.C., Ames,D., Murty,C.V.R., Jain,S.K., Dash,S.R., Kaushik,H.B., Mondal,G., Murugesha,G., Plant,G., McLaughlin,J., Yashinsky,M., Eskijian,M., and Rao,S.
190. Response and Recovery in India after the December 2004 Great Sumatra Earthquake and Indian Ocean Tsunami, paper in special issue on 2004 Indian Ocean Earthquake and Tsunamis Reconnaissance Report, *Earthquake Spectra*, A Professional Journal of the Earthquake Engineering Research Institute (USA), Volume 22, No. S3, pages S731-S758, June 2006, Murty,C.V.R., Jain,S.K., Sheth,A., Jaiswal,A., and Dash,S.R.
191. Experimental analysis of charge dynamics in tumbling mills by vibration signature technique, *Minerals Engineering*, Elsevier, Vol. 20(1), pp 84-91, 2006, Behera,B., Mishra,B.K., and Murty, C.V.R.
192. Improved Welded Beam-to-Column Connections in Earthquake-Resistant Steel Structures, *Journal of Structural Engineering*, SERC, Madras, Vol.33, No.3, August - September 2006, pp 187-195, Pant, M., and Murty,C.V.R.
193. Studies on Holocene climatic changes from Priyadarshini Lake sediments, Eastern Antarctica based on palynological evidence. *Journal of Geological Society of India*, 69, 92-96, 2007, Sharma, C., Chauhan, M.S. and Sinha, R.
194. Quaternary fluvial systems of India. *Quaternary International*, 159, 1-5 (doi:10.1016/j.quaint.2006.09.002), 2007, Sinha, R. and Friend, P.F.
195. Environmental magnetic studies on some Quaternary sediments of varied depositional settings in the Indian subcontinent: Implications for detrital to authigenic controls. *Quaternary International*,159, 102-118 (doi:10.1016/j.quaint.2006.09.015), 2007, Sangode, S. J., Sinha, R., O. S. Chauhan, B. Phartiyal, R. K. Mazari, N. Suresh, Sheila Mishra, Rohtash Kumar, T. N. Bagati, P. Bhattacharjee.
196. Calcretes from a monsoon-dominated Late Quaternary interfluvium in the Southern Ganga Plains : isotopic data and palaeoenvironmental implications. *Palaeogeography, Palaeoclimatology, Palaeoecology* 242/3-4 pp 214-239, 2006, Sinha R., S.K. Tandon, P. Sanyal, M.R. Gibling, D. Stuben, Zsolt Berner and P. Ghazanfari.
197. Alluvial valleys of the Gangetic Plains, India: causes and timing of incision. In: *Incised Valleys in Time and Space*, SEPM Special Publication no. 85, 15-35, 2006, Tandon, S.K., Gibling M.R., Sinha R., Singh V., Ghazanfari P., Dasgupta A., Jain M. and Jain V.

198. Late Quaternary palaeoclimatic reconstruction from the lacustrine sediments of the Sambhar playa core, Thar Desert margin, India. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 233/3-4, 252-270, 2006, Sinha, R., W. Smykatz-Kloss, D. Stueben, S.P. Harrison, Z. Berner & U. Kramar.
199. Late Holocene geochemical history inferred from Sambhar and Didwana playa sediments, Thar Desert, India: comparison and synthesis. *Quaternary International*, 144/1, 84-98, 2006, Roy P. D., Smykatz-Kloss W. and Sinha R..
200. A numerical prediction of aerosol charging and electrical conductivity in the lower atmosphere of Mars, *Geophys. Res. Lett.*, Vol. 34, 2007, L04201, doi:10.1029/2006GL028434, Michael, M., M. Barani and S. N. Tripathi
201. Estimation of aerosol optical properties and radiative effects in the Ganga Basin, Northern India during the winter time, *Journal of Geophysical Research*, Vol. 112, 2007, D03203, doi:10.1029/2006JD007267, Dey, S. and S. N. Tripathi.
202. Measurement of atmospheric parameters during ISRO-GBP Land Campaign II at a typical location in Ganga Basin: Part-I-Physical and Optical Properties, *Journal of Geophysical Research*, Vol. 111, 2006, D23209, doi:10.1029/2006JD007278, Tripathi, S. N., Vinod Tare, N. Chinnam, A. K. Srivastava, Sagnik Dey, A. Agarwal, S. Kishore, R. B. Lal, Manish, Manar, Vijay Kanawade, S. S. S. Chauhan and M Sharma.
203. Measurement of atmospheric parameters during ISRO-GBP Land Campaign II at a typical location in Ganga Basin: Part-II-Chemical Properties, *Journal of Geophysical Research*, Vol. 111, 2006, D23210, doi:10.1029/2006JD007279, Tare Vinod, S. N. Tripathi, N. Chinnam, A. K. Srivastava, Sagnik Dey, Manish, Manar, Vijay Kanawade, A. Agarwal, S. Kishore, R. B. Lal and M. Sharma.
204. Dust events in Kanpur, Northern India: chemical evidence for source and implications to radiative forcing, *Geophysical Research Letters*, Vol. 33, 2006, L08803, doi:10.1029/2005GL025278, Chinnam, N., Sagnik Dey, S. N. Tripathi and M. Sharma.
205. Computationally efficient expression for the collision efficiency between electrically charged aerosol particles and cloud droplets, *QJRMS*, Vol.132, 2006, 1717-1737, Tripathi, S. N., Sameer Vishnoi, Shiwesh Kumar, and R. Giles Harrison.
206. Experiences in using WiFi for Rural Internet in India, *IEEE Communications Magazine*, Jan 2007, Special Issue on New Directions in Networking Technologies in Emerging Economies, Bhaskaran Raman and Kameswari Chebrolu.

207. RAM Simulation of BGS Model of Abstract-state Machines, *Fundamenta Informaticae*, 77 (1-2), 2007, pp 175-185, Comandur Seshadhri, Anil Seth and Somenath Biswas
208. Dense cluster gateway based routing protocol for multi-hop mobile ad hoc networks, *Ad hoc Networks*, vol. 4, 2006, pp 168-185, R. K. Ghosh, Vijay K. Garg, M. Shangkar Meitei, Shree Raman, Abhijeet Kumar, Nishit Tewari.
209. Artificial Neural Network Type Learning with Single Multiplicative Spiking Neuron, *International Journal of Computers, Systems and Signals*, 2007, (In press), Deepak Mishra, Abhishek Yadav, Sudipta Ray and Prem K. Kalra.
210. OR-Neuron Based Hopfield Neural Network for Solving Economic Load Dispatch Problem, *Neural Information Processing - Letters and Reviews*, (Accepted for Publication), 2006, Mishra, D., Amit Shukla, and P.K. Kalra.
211. Modified Hopfield Neural Network Approach for Solving Nonlinear Algebraic Equations, *Engineering Letters on Soft Computing in Artificial Intelligence, Data and Web Mining, Machine Learning*, (Part I), vol. 14, no. 1, pp. EL_14_1_23, 2007, Mishra, D., and P.K. Kalra.
212. A Novel Multiplicative Neural Network Architecture Motivated by Spiking Neuron Model, *Journal of the Indian Institute of Science*, vol. 86, pp. 465-479, Sept.-Oct. 2006, Mishra, D., A. Yadav, and P.K. Kalra.
213. A Learning Algorithm for a Novel Neural Network Architecture by Integrate-And-Fire Neuron Model, *Neural Network World*, vol. 16, pp. 513-532, 2006, Mishra, D., A. Yadav, and P.K. Kalra.
214. Time-series prediction with single integrate-and-fire neuron, *Applied Soft Computing*, vol. 7, pp. 739-745, 2007, Yadav, A, Deepak Mishra, Ray, S., Yadav, R.N. and Kalra, P.K.
215. Controlling Synchronization of Modified FitzHugh-Nagumo Neurons Under External Electrical Stimulation, *NeuroQuantology*, issue 1, pp. 50-67, 2006, Deepak Mishra, A. Yadav, S. Ray, and P.K. Kalra.
216. A Neural Network Using Single Multiplicative Spiking Neuron for Function Approximation and Classification. *IEEE International Joint Conference on Neural Networks*, 2006. (IJCNN 06), 16-21 July pp. 396 - 403, 2006, Mishra, D., Yadav, A., Dwivedi, A. and Kalra, P.K..
217. Spiking Neuron Based Neural Network for Function Approximation and Classification, *Conference on Neural Biology and Neural Informatics (NBNI-2006)*, Kyoto, Japan., July 23-24, 2006, Deepak Mishra and Prem K. Kalra.
218. Color Image Compression Using 2-Dimesional Principal Component Analysis (2DPCA), *The 9th Asian Symposium on Information Display (ASID)*, October 8 to 12, New Delhi, India, 2006, Ashutosh Dwivedi, Arvind Tolam biya , Prabhanjan Kandula ,N. Subhash Chandra Bose, Ashiwani Kumar and P. K. Kalra.

219. A Novel Hybrid Image Compression Technique: Wavelet-MFOCPN, The 9th Asian Symposium on Information Display (ASID), October 8 to 12, New Delhi, India, 2006, Ashutosh Dwivedi, N. Subhash Chandra Bose, Ashiwani Kumar, Prabhanjan Kandula, Deepak Mishra and P. K. Kalra.
220. Separation of Image Mixture using Complex ICA, The 9th Asian Symposium on Information Display (ASID), October 8 to 12, New Delhi, India, 2006, Deepak Kumar Singh, Shipra Tripathi and P. K. Kalra.
221. Color Image Compression with Modified Forward Only Counter Propagation Neural Network: Improvement of the Quality Using Different Distance Measures, The 9th IEEE International Conference on Information Technology, ICIT06 (India), pp. 139-140, 2006, Deepak Mishra, N. Subhash, A. Dwivedi, A. Tolambiya, A. Kumar, P. Kandula and Prem K. Kalra.
222. Stability Analysis for Higher Order Complex-Valued Hopfield Neural Network, The 13th International Conference on Neural Information Processing, ICONIP06 (Hong Kong), Lecture Notes in Computer Science, vol. 4232, pp. 608-615, 2006, Deepak Mishra, Amit Shukla and Prem K. Kalra.
223. Learning with Single Quadratic Integrate-and-Fire Neuron, Third International Symposium on Neural Networks, Chengdu, China, May 28 - June 1, Lecture Notes in Computer Science, vol. 3971, pp.424-429, 2006, [Deepak Mishra](#), [Abhishek Yadav](#) and [Prem Kumar Kalra](#).
224. A Novel Neural Network Approach to Generate Orthogonal Wavelet Coefficients, Proceeding of workshop on Computational Intelligence, Leeds, UK, September (UKCI06), 2006, Arvind Tolambiya, Deepak Mishra, Ashutosh Dwivedi, and Prem K. Kalra.
225. Learning machine using heterogeneous neurons with high dimensional parameter, IEEE International conference on System of Systems Engineering, San Antonio, USA, April 16-18, 2007, B. K. Tripathi and Prem K. Kalra.
226. Complex valued heterogeneous Neural Network, 20th International Joint Conference on Artificial Intelligence, Jan. 6-12, Hyderabad India, 2007, B. K. Tripathi and Prem K. Kalra.
227. Brain Signal Analysis: A Statistical Approach, paper accepted in the Symposium on Computational Neuroscience and Imaging ,17 - 20 December, Lucknow, India, 2006, Deepak Mishra, Deepak Kumar Singh, Ashutosh Dwivedi, Md. Shiblee, Meenakshi Singh, Swanti Satsangi, Megha Yadav and Prem K. Kalra.
228. New Neuron Model for Independent Component Analysis, paper accepted for workshop session in International Joint Conference on Artificial Intelligence, 6-12 January, Hyderabad, India, 2007, Deepak Kumar Singh, Shipra Tripathi and Prem K. Kalra.

229. Multilayer Generalized Mean Neuron Model for Blind Source Separation, paper accepted in 2007 IEEE International Symposium on Intelligent Control, 1-3 Oct, Singapore, 2007, Meenakshi Singh, Deepak Kumar Singh and Prem K Kalra.
230. Color Image Compression using Block-Based Independent Component Analysis, Fifth International Symposium on Image and Signal Processing and Analysis (ISPA 2007), Istanbul, Turkey, 2007, Sandeep Kumar Yadav, Vrijendra Singh, N.K. Singh and Prem K Kalra.
231. WSVM with Morlet Wavelet Kernel for Image Compression, IEEE International conference on System of Systems Engineering, San Antonio, USA, April 16-18, 2007, Arvind Tolambiya and Prem K. Kalra.
232. A Decentralized Nonlinear Feedback Controller with Prescribed Degree of Stability for Damping Oscillations, Electric Power Systems Research, Vol. 77, March 2007, pp. 204-211, B. Kalyan Kumar, S. N. Singh and S. C. Srivastava.
233. Placement of FACTS Controllers using Modal Controllability Indices to Damp out Power System Oscillations, IET Proceedings on Generation Transmission and Distribution, Vol. 1, No. 2, March 2007, pp.209-217, B. Kalyan Kumar, S. N. Singh and S. C. Srivastava.
234. Sensitivity Based Approach for Transmission Congestion Management Utilizing Bids for Generation Rescheduling and Load Curtailment, International Journal of Emerging Electric Power Systems, Berkeley Electronic Press, Vol..7, Issue 4, Article 1357, 2006, H.K. Singh, S.C.Srivastava and Ashwani Kumar.
235. A Sensitivity Based Approach for Optimal Location of Multi-Converter Unified Power Flow Controller Considering Its Impact on Generation and Wheeling Costs, International Journal of Energy Technology and Policy (IJETP), Vol. 4, No. 3/4, 2006, pp. 394-409, J.G. Singh, S.N. Singh and S.C. Srivastava.
236. Placement of FACTS Controllers for Enhancement of Power System Loadability, 2006 IEEE Power India Conference, New Delhi, April 10-12, 2006, paper no. 099, J. G. Singh, S. N. Singh, S. C. Srivastava.
237. Voltage security Constrained Localized Reactive Power Market, 2006 IEEE Power India Conference, New Delhi, April 10-12, 2006, paper no. 087, Sanjoy K. Parida, S. N. Singh, S. C. Srivastava.
238. A Decentralized Nonlinear Feedback Controller for SVC with Prescribed Degree of Stability for Damping Power System Oscillations, Proc. Of the International Conference on Advanced Power System Operation Control and Management (APSCOM-2006), Hong Kong, 30th October - 2nd November, 2006, B. Kalyan Kumar, S. N. Singh and S. C. Srivastava.
239. Reactive Market Power Analysis Using Herfindahl-Hirschman Index, Proc. Of the International Conference on Advanced Power System Operation Control and Management (APSCOM-2006), Hong Kong, 30th October - 2nd November, 2006, Sanjoy K. Parida, S. N. Singh and S. C. Srivastava.

240. A Sensitivity Based Approach for Optimal Placement of Distributed Generations in Power Systems, Proc. Of the 14th National Power Systems Conference (NPSC), IIT Roorkee, 27-30 December, 2006, G.C. Sethi, P. Tripathi, S. N. Singh and S. C. Srivastava.
241. A New Index for Oscillatory Stability Based Contingency Ranking, Proc. Of the 14th National Power Systems Conference (NPSC), IIT Roorkee, 27-30 December, 2006, R.M.K. Verma and S. C. Srivastava.
242. A Sensitivity Based Approach for Optimal Location of Multi-Converter Unified Power Flow Controller Considering Its Impact on Generation and Wheeling Costs, International Journal of Energy Technology and Policy (IJETP), Vol. 4, No. 2, 2006, JG Singh, S.N. Singh and SC Srivastava.
243. Flexible AC Transmission Systems Controllers: An Overview, International Journal of Energy Technology and Policy (IJETP), Vol. 4, No. 2, 2006, S.N. Singh.
244. Present and Future of Flexible AC Transmission Systems (FACTS) Controllers in the Power Systems, (Editorial) International Journal of Energy Technology and Policy (IJETP), Vol. 4, No. 2, 2006, S.N. Singh.
245. Voltage Security Constrained Localized Reactive Power Market, IEEE Power India Conference Delhi, April 10-12, 2006, SK Parida, S.N. Singh and SC Srivastava.
246. A Robust Energy Features Estimation for Detection and Classification of Power Quality Disturbances, IEEE Power India Conference Delhi, April 10-12, 2006, UK Dwivedi and SN Singh.
247. Placement of FACTS Controllers for Enhancing Power Systems Loadability, IEEE Power India Conference Delhi, April 10-12, 2006, JG Singh, S.N. Singh and SC Srivastava.
248. Congestion Clusters Based Congestion Management Using DC Load Flow Approach, International Conference on Energy, Efficiency and Environment, UPTU Lucknow, June 10-11, 2006, pp. 164-178, Ashwani Kumar, S C Srivastava and S.N. Singh.
249. Modeling of UPFC in Multi-Machine Power Systems: An Overview, International Conference on Energy, Efficiency and Environment, UPTU Lucknow, June 10-11, 2006, pp. 319-329, Bindeshwar Singh, S.N. Singh, KG Upadhyay, DK Nishad, NK Sharma and AN Tiwari.
250. Real Power Contingency Selection And Ranking Using Hybrid Neural Network, International Conference on Energy, Efficiency and Environment, UPTU Lucknow, June 10-11, 2006, pp. 422-430, R Singh, L Srivastava, M Pandit and S.N. Singh.
251. Power System Stabilizer Tuning in Nuclear Power Station: A Case Study of India, International Conference on Energy, Efficiency and Environment, UPTU

- Lucknow, June 10-11, 2006, pp. 390-401, SP Panda, S.N. Singh, and B Kalyan Kumar.
252. Wind Power Trading Options in Competitive Electricity Market, IEEE PES General Meeting 2006 June 18-22, 2006 Montreal Canada, S.N. Singh and I Erlich.
 253. Impact of TCPAR on Congestion Clusters and Congestion Management Using MINLP, IEEE PES General Meeting 2006 June 18-22, 2006 Montreal Canada, Ashwani Kumar, S.N. Singh and LL Lai.
 254. An Electric Power Trading Model for Indian Electricity Market, IEEE PES General Meeting 2006 June 18-22, 2006 Montreal Canada, P Bajpai and S.N. Singh.
 255. Performance Analysis of Unified Power Flow Controller Using Fuzzy-PI Control, The Journal of CPRI, Bangalore, Vol. 3, No. 1, September 2006, pp 37-44, SK Srivastava, KG Upadhyay and S.N. Singh.
 256. Integration of Wind Energy in Competitive Electricity Markets, 17th International Conference on Electrical Machines, Chania, Crete Island, Greece, September 2-5, 2006, S.N. Singh and Demetrios P. Papadopoulos.
 257. Enhancing Power Systems Security Using FACTS Controllers, National Seminar on Voltage Stability (SVC06), at Arulmigu Kalasalingam College of Engineering, Tamil Nadu, October 13-14, 2006. (Keynote Paper), JG Singh and S.N. Singh.
 258. Power System Security in Deregulated Environment, National Seminar on Voltage Stability (SVC06), at Arulmigu Kalasalingam College of Engineering, Tamil Nadu, October 13-14, 2006 (Keynote Paper), S.N. Singh.
 259. A decentralized nonlinear feedback controller for SVC with prescribed degree of stability for damping power system oscillations, 7th IEE International Conference on Advances in Power System Control, Operation and Management (APSCOM 2006), Hong Kong, 30 October-2 November 2006, B Kalyan Kumar, S.N. Singh, and SC Srivastava.
 260. Reactive Market Power Analysis Using Herfindahl-Hirschman Index, 7th IEE International Conference on Advances in Power System Control, Operation and Management (APSCOM 2006), Hong Kong, 30 October - 2 November 2006, SK Parida, S.N. Singh and SC Srivastava.
 261. 7th IEE International Conference on Advances in Power System Control, Operation and Management (APSCOM 2006), Hong Kong, 30 October - 2 November 2006, Umakant Dhar Dwivedi and S.N. Singh.
 262. An Efficient Adaptive Hysteresis Band Current Controller For Active Power Filters, 15th IEEE Annual Symposium 2006, 24-25 Nov 2006, Bharat Singh Rapurohit and S.N. Singh.
 263. A Sensitivity Based Approach for Optimal Placement of Distributed Generators in Power System, Proceedings of National Power Systems Conference, IIT

- Roorkee (India), December 27-29, 2006, GC Sethi P Tripathy, S.N. Singh and Sc Srivastava.
264. A decentralized nonlinear feedback controller with prescribed degree of stability for damping power system oscillations, *Electric Power Systems research*, Vol. 77, No. 3-4, March 2007, pp. 204-211, B. Kalyan Kumar, S.N. Singh and SC Srivastava.
 265. Placement of SVC, TCSC and UPFC using Controllability Index Method to Damp Out Inter-Area Oscillations, *IEE Proceedings, Part C*, March 2007, B. Kalyan Kumar, S.N. Singh and SC Srivastava.
 266. GIS/GPS Integration in Electric Power Distribution Automation, *International Journal of Geoinformatics*, Thailand, Vol. 3, No.2, March 2007, M. Rajender and S.N. Singh.
 267. Frequency domain characterization of sliding mode control of an inverter used in DSTATCOM application, *IEEE Transactions Circuits and System – I: Regular Papers*, Vol. 53, No. 3, pp. 662-676, 2006, R. Gupta and A. Ghosh.
 268. A novel method of load compensation under unbalanced and distorted voltages, *IEEE Trans. Power Delivery*, Vol. 22, No. 1, pp. 288-295, 2007, M. K. Mishra, A. Ghosh, A. Joshi and H. M. Suryawanshi.
 269. Interline unified power quality conditioner, *IEEE Trans. Power Delivery*, Vol. 22, No. 1, pp. 364-372, 2007, K. Jindal, A. Ghosh and A. Joshi.
 270. Hysteresis current control operation of flying-capacitor multilevel inverter and its application in shunt compensation of distribution systems, *IEEE Trans. Power Delivery*, Vol. 22, No. 1, pp. 396-405, 2007, Shukla, A. Ghosh and A. Joshi.
 271. Application of trajectory sensitivity for the evaluation of the effect of TCSC placement on transient stability, *International Journal of Emerging Electric Power Systems*, Vol. 8, Issue 1, Article 4, pp. 1-22, 2007. Available at <http://www.bepress.com/ijeeps/vol8/iss1/art4>, D. Chatterjee and A. Ghosh.
 272. TCSC control design for transient stability improvement of a multi-machine power system using trajectory sensitivity, *Electric Power System Research*, Vol. 77, No. 5-6, pp. 470-483, 2007, D. Chatterjee and A. Ghosh.
 273. Control of cascaded transformer multilevel inverter based DSTATCOM, *Electric Power System Research*, Vol. 77, No. 8, pp. 989-999, 2007, R. Gupta, A. Ghosh and A. Joshi,
 274. Distribution bus voltage control using DVR under the supply frequency variations. *Proc. IEEE Power India Conference*, New Delhi, 2006, M. Chawla, A. Rajvanshy, A. Ghosh and A. Joshi.
 275. Control of 3-level shunt active power filter using harmonic selective controller, *Proc. IEEE Power India Conference*, New Delhi, 2006, R. Gupta, A. Ghosh and A. Joshi.

276. Cascaded multilevel control of DSTATCOM using multiband hysteresis modulation, Proc. IEEE-PES General Meeting, Montreal, 2006, R. Gupta, A. Ghosh and A. Joshi.
277. Power flow control in a distribution system through an inverter interfaced distributed generator, Proc. IEEE-PES General Meeting, Montreal, 2006, S. V. Iyer, A. Ghosh and A. Joshi.
278. Trajectory sensitivity analysis in distributed generation systems, Proc. IEEE Int. Conf. on Power Electronics, Drives and Energy Systems for Industrial Growths (PEDES), New Delhi, 2006, D. Chatterjee, A. Ghosh and M. A. Pai.
279. Voltage control of an inverter interfaced distributed generator in a non-ideal distribution system, Proc. Australasian Universities Power Engineering Conference, AUPEC, 2006, Melbourne, Ghosh, S. V. Iyer and A. Joshi.
280. Voltage regulation using multiple custom power devices, Proc. National Power Systems Conference (NPSC06), IIT Roorkee, 2006, K. Jindal, A. Ghosh and A. Joshi.
281. Application of trajectory sensitivity in effective use of a STATCOM-controller for transient stability improvement of power systems, Proc. National Power Systems Conference (NPSC06), IIT Roorkee, 2006, D. Chatterjee and A. Ghosh.
282. Experimental Investigation of a Single Phase UPQC with Minimum VA Loading, IEEE Transactions on Power Delivery, vol. 22, no. 1, pp.373-380, Jan. 2007, Y. Y. Kolhatkar and S. P. Das.
283. Comparative Evaluation of Two Models of UPQC for Suitable Interface to Enhance Power Quality, vol. 77, issue 7, Journal of Electric Power Systems Research, pp. 821-830, May 2007, M. Basu, S. P. Das and G. K. Dubey.
284. Quasi-Resonant Inverter-Fed Direct Torque Controlled Induction Motor Drive, Journal of Electric Power Systems Research, vol. 77, issue 8, pp. 946-955, June 2007, S. Behera, S. P. Das and S. R. Doradla.
285. Experimental Investigation of DVR with Sliding Mode Control, Proceedings of IEEE Power India Conference, New Delhi, April 10-12, 2006, Paper No. 117, Rammohan Rao E., Y. Y. Kolhatkar, and S. P. Das.
286. Describing Function Analysis and Experimental Investigation of a High Power Utility Friendly AC-DC Converter System, in Proc. IECON 2006, Paris, Nov. 2006, pp 2186-2191, R. K. Behera, T. V. Dixit, and S. P. Das.
287. A Novel Control of Bi-Directional Switches in Matrix Converter, in Proc. of IEEE International Conference on Power Electronics, Drives and Energy Systems for Industrial Growth (PEDES 2006), New Delhi, 12-15 Dec. 2006, 3A-26, Meharegzi T. A. and S. P. Das.
288. Matrix Converter-fed High Performance Synchronous Motor Drive System, in Proc. of IEEE International Conference on Industrial Technology (ICIT 2006), Mumbai, 15-17 Dec. 2006, pp. 2519-2524, Meharegzi T. A. and S. P. Das.

289. Analysis of Switching Schemes for Three Level Neutral Point Clamped Inverter fed Induction Motor Drive, in Proc. of IEEE International Conference on Power Electronics, Drives and Energy Systems for Industrial Growth (PEDES 2006), New Delhi, 12-15 Dec. 2006, 3B-21, R. K. Behera and S. P. Das.
290. A Utility Friendly High Power Induction Motor Drive with Direct Torque and Flux Control, in Proc. of IEEE International Conference on Industrial Technology (ICIT 2006), Mumbai, 15-17 Dec. 2006, pp. 1983-1988, R. K. Behera and S. P. Das.
291. Three-level Inverter-fed High Performance Induction Motor Drive System for High Power Application, in Proc. of IEEE India International Conference on Power Electronics (IICPE), Chennai, 19-21 Dec. 2006, R. K. Behera, T. V. Dixit, G. Kiran, and S. P. Das.
292. Fault diagnosis and condition monitoring of electrical machines - A Review, in Proc. of IEEE International Conference on Industrial Technology (ICIT 2006), Mumbai, 15-17 Dec. 2006, pp. 3061-3066, D. Basak, A. Tiwari, and S. P. Das.
293. Kinematic Control of a 6-DOF Robot Manipulator using Kohonen Self-Organizing Map, Accepted for publication in Dynamics of Continuous, Discrete and Impulsive Systems, Part B, Special Volume, Anjan Kumar Ray, Laxmidhar Behera and Amit Shukla.
294. On adaptive learning rate that guarantees convergence in feed-forward networks, IEEE Trans Neural Networks, Vol. 17, No. 5, pp 1116-1125, September 2006, Laxmidhar Behera, Swagat Kumar and Awhan Patnaik.
295. Variable gain controllers for nonlinear systems using T-S Fuzzy model, IEEE Trans Systems, Man and Cybernetics, Part B, pp 1442-1449, 2006, Prem Kumar P., Indrani Kar and Laxmidhar Behera.
296. A Model-free Redundancy Resolution Technique for VisualMotor Coordination of a 6-DOF Robot Manipulator, Accepted in IEEE Multiple Conference on Systems and Control, 1-3 October 2007, Singapore, Swagat Kumar, Amit Shukla, Ashish Dutta and Laxmidhar Behera.
297. Direct Adaptive Control Using Single Network Adaptive Critic, IEEE SoSE Conference, San Antonio, Texas, USA, 16-18 April, 2007, Swagat Kumar, Radhakant Padhi and Laxmidhar Behera.
298. Design of A Non-dominated PID Compensator, Advances in Control and Optimization of Dynamical Systems, IISc Bangalore, February 2007, Awhan Patnaik and Laxmidhar Behera.
299. Neural network based direct adaptive control for a class of affine nonlinear systems, IEEE Int. Symposium on Intelligent Control (ISIC), 2006, Munich, Germany, Indrani Kar and Laxmidhar Behera.

300. Kinematic Control of Robot Manipulators using Visual Feedback, IEEE Int. Symposium on Intelligent Control (ISIC), 2006, Munich, Germany, Anjan K Ray, Mayank Agrawal and Laxmidhar Behera.
301. Time varying associative memory, National conference on soft computing NCSC-2006, March, Bhubaneswar, G Rama Murthy and Laxmidhar Behera.
302. Improvement of Current Dynamics During Controller Saturation in a STATCOM, Ravikanth Bachana and Partha Sarathi Sensarma, Conf. Records of International Conference on Information Technology ICIT 2006, December 15-17, 2006, Mumbai, India.
303. Improved PLL Under Distorted Utility Conditions, Rakesh Kumar Sinha and Partha Sarathi Sensarma, Conf. Records of International Conference on Information Technology IEEE-ICIT 2006, December 15-17, 2006, Mumbai, India.
304. Networked control systems and a mixed open-loop/closed loop control. Ramprasad Potluri, Kushagra Nagaich, Ramandeep Singh. Conf. on Advances in Control and Optimization of Dynamic Systems. IISc Bang., Jan. 2007.
305. Effect of the presence of voids on electrical treeing in polymeric insulation, National Power Systems Conference (NPSC 06), IIT Rorkee, Dec 2006, Amit Mahajan, Elan Seralathan K and Nandini Gupta.
306. Stochastic modeling of electric tree progression due to partial discharge activity, 2006 IEEE 8th International Conference on Properties and Applications of Dielectric Materials (IEEE Cat. No. 06CH37773), 2006, p 4 pp, [Elan Seralathan, K.](#) and [Nandini Gupta.](#)
307. Surface degradation studies in polymer dielectrics with nano-sized fillers, 2006 IEEE 8th International Conference on Properties and Applications of Dielectric Materials (IEEE Cat. No. 06CH37773), 2006, p 4 pp, [Maity, P.](#) ;[Basu, S.](#); [Parameswaran, V.](#) and [Nandini Gupta.](#)
308. Performance of 400 kV line insulators under pollution, Conference record of 2006, IEEE International Symposium on Electrical Insulation, June 11-14, 2006, Toronto, Canada, pp. 136-139, R. Arora, Manoj Rai, Satyendra Kumar Yadav.
309. Novel Masks for Multimodality Image Fusion using DTCWT, in Proc. of the 9th International Conference on Information Fusion; Florence (Italy), 10-13 July 2006, Mohd. Shahid and Sumana Gupta.
310. Threshold Free Technique to Detect the Blotches in Old Film Sequences, in Proc. of the Thirteenth, National Conference on Communications (NCC), January 26-28, 2007, Meduri Chandra Sekhar and Dr. Sumana Gupta.
311. Compressed Video Indexing and Retrieval System Using Two Dimensional Representation of Color, in Proc. Of the Thirteenth National Conference on Communications (NCC), IIT Kanpur, 26-28 January 2007, Anjaneya Prasad Musunuri, Sumana Gupta.

312. Feature Assisted Fast Motion Estimation Algorithm, ICIP 2006: International Conference on Image Processing, Atlanta, GA, USA, October 8-11, 2006, Jawahar Waknis, Sumana Gupta.
313. Complexity Scalable 3D Video Coding Based on Mixed Transform Technique in Proc. Of the VIE2006: International Conference on Visual Information Engineering, Innovation and Creativity in Visual Media Processing and Graphics, October 2006, Bangalore, India, J. P. Agrawal, S. Gupta.
314. Texture Synthesis Using Angular Wavelet Frames, in Proc. Of the ASID06 Oct.2006, New Delhi, S V Venkateswara, Sumana Gupta.
315. Upper Bound in Model Order Selection of MRF with application to Texture Synthesis, in the Proc. Of the 6th International Conference on Advances in Pattern Recognition, Indian Statistical Institute, Kolkata, Jan. 2007, Arnab Sinha and Sumana Gupta .
316. On Error Rate in Hypothesis Testing based on Universal Compression Algorithms, Proceedings of 2006 IEEE Information Theory Workshop, Chengdu, China, pp 351-355, K. Gopalan and R. K. Bansal.
317. On Error Rate in Lossy Source Coding Proceedings of 43rd Annual Allerton Conference on Communication, Control and Computing, Monticello, Illinois, USA, Mayank Bakshi and R. K. Bansal.
318. Speaker-Invariant Features for Automatic Speech Recognition, International Joint Conference on Artificial Intelligence, January 2007, Page(s):1738 - 1743, Srinivasan Umesh, D. Rama Sanand, G. Praveen.
319. Study Of Non-Linear Frequency Warping Functions For Speaker Normalization, IEEE International Conference on Acoustics, Speech and Signal Processing, 2006, Volume 1, 14-19 May 2006 Page(s):I-1245 - I-1248, Kumar, S.V.B., Umesh, S., Sinha, R.
320. Vtln Warping Factor Estimation Using Accumulation of Sufficient Statistics, IEEE International Conference on Acoustics, Speech and Signal Processing, 2006, Volume 1, 14-19 May 2006 Page(s):I-1201 - I-1204, Loof, J.; Ney, H.; Umesh, S.
321. Jacobian Compensation Using Variance Normalization in Automatic Speech Recognition, Proc. of National Conference on Communications, IIT-Kanpur, Jan. 2007, Mohd Amir Khan, D. Rama Sanand, S. Umesh.
322. Using Vocal-Tract Length Normalization in Recognition of Children Speech, Proc. of National Conference on Communications, IIT-Kanpur, Jan. 2007, S. Umesh, R. Sinha, D Rama Sanand.
323. Multicarrier On-Off Keying for Fast Frequency Hopping Multiple Access Systems in Rayleigh Fading Channels, IEEE Transactions on Wireless Communications, Vol. 6, Issue 3, pp. 769-774, March 2007, Shrutivandana Sharma, Gaurav Yadav and A. K. Chaturvedi.

324. Evaluation of error probabilities in the presence of timing errors and fading, IEEE Transactions on Wireless Communications, Vol. 6, Issue 2, pp. 473-477, February 2007, P Sandeep, S Chandan and A. K. Chaturvedi.
325. Upper Bounds on the Rate of LDPC Codes for a Class of Finite State Markov Channels, IEEE Transactions on Information Theory, Vol. 53, No. 2, pp. 794-804, Feb 2007, Pulkit Grover and A. K. Chaturvedi.
326. Non-Data Aided Symbol Timing Estimation in Multi Antenna Systems Proc. National Conference on Communications (NCC), pp. 430-434, 26-28 January 2007, Ketan Rajawat and A. K. Chaturvedi.
327. Encoder and SNR Independent Stopping Rule for Turbo Codes, Proc. National Conference on Communications (NCC), Pp 373-376, 26-28 January 2007, A Rajesh and A. K. Chaturvedi.
328. Tracking Behaviour of Acoustic Echo Canceller Using Multiple Sub-Filters, 14th European Signal Processing Conference, September 2006, R. N. Sharma, A. K. Chaturvedi and G Sharma.
329. A New Framework for Constructing Mutually Orthogonal Complementary Sets and ZCZ Sequences, IEEE Transactions on Information Theory, Vol. 52, No. 8, pp. 3817-3826, Aug 2006, A Rathinakumar and A. K. Chaturvedi.
330. A Low Complexity Symbol Timing Estimator for MIMO Systems Using Two Samples Per Symbol IEEE Communications Letters, Vol. 10, No. 7, pp. 525-527, July 2006, Ketan Rajawat and A. K. Chaturvedi.
331. Performance Analysis of a Predetection EGC Receiver in Exponentially Correlated Nakagami-m Fading Channel for Noncoherent Binary Modulations, IEEE Transactions on Wireless Communications, Vol. 5, No. 7, pp. 1634-1638, July 2006, P. R. Sahu and A. K. Chaturvedi.
332. A Subspace Based Approach to Pulse Design with Application to UWB Communications Proc. IEEE International Conference on Communications (ICC), 11-15 June 2006, S Chandan, P Sandeep and A. K. Chaturvedi.
333. Construction of Turbo Code Interleavers from 3-regular Hamiltonian Graphs, IEEE Communications Letters, vol. 10, no. 4, April. 2006, pp. 284-286, Arya Mazumdar, Ajit K. Chaturvedi, and Adrish Banerjee.
334. Modified exponential companding for PAPR reduction of OFDM signals, IEEE Wireless Communications and Networking Conference (WCNC), Hong Kong, March 2007, N. S. L. Phani Kumar, Adrish Banerjee, and Pradip Sircar.
335. A new technique to reduce cross terms in the Wigner distribution, Digital Signal Processing, vol. 17, pp. 466-474, Mar. 2007, R. B. Pachori and P. Sircar.
336. Analysis of multicomponent nonstationary signals using Fourier-Bessel transform and Wigner distribution, Proc. 14th European Signal Processing Conference, Florence, Italy, Sept. 2006, R. B. Pachori and P. Sircar.

337. Speech analysis using Fourier-Bessel expansion and discrete energy separation algorithm, Proc. IEEE 12th DSP Workshop & 4th Signal Processing Educational Workshop, G. T. National Park, Wyoming, Sept. 2006, R. B. Pachori and P. Sircar.
338. Surveillance Video Mining, Proceedings of the Third IET International Conference on Visual Information Engineering, pp. 447-453, Bangalore (India), September 26-28, 2006, Prithwijit Guha, Arindam Biswas, Amitabha Mukerjee, P. Sateesh and K.S. Venkatesh.
339. Intrusion Detection and Tracking with Pan-Tilt Cameras, Proceedings of the Third IET International Conference on Visual Information Engineering, pp. 565-571, Bangalore (India), September 26-28, 2006, Arindam Biswas, Prithwijit Guha, Amitabha Mukerjee and K.S. Venkatesh.
340. Activity Discovery from Surveillance Videos, Proceedings of the 18th International Conference on Pattern Recognition (ICPR), Vol. 1, pp. 433-436, Hong Kong (China), August 20-24, 2006, Prithwijit Guha, Amitabha Mukerjee, K.S. Venkatesh and Pabitra Mitra.
341. Appearance Based Multi-Agent Tracking Under Complex Occlusions, Proceedings of the 9th Pacific Rim International Conference on Artificial Intelligence (PRICAI), Lecture Notes in Computer Science (LNCS), Vol. 4099, Springer, pp. 593-602, Guilin (China), August 7-11, 2006, Prithwijit Guha, Amitabha Mukerjee and K.S. Venkatesh.
342. Efficient Continuous Re-grasp Planning for Moving and Deforming Planar Objects, Proceedings of the IEEE International Conference on Robotics and Automation (ICRA), pp. 2472-2477, Florida (USA), May 15-19, 2006, Tripuresh Mishra, Prithwijit Guha, Ashish Dutta and K.S. Venkatesh.
343. Occlusion Sequence Mining for Complex Multi-Agent Activity Discovery, Proceedings of The Sixth IEEE International Workshop on Visual Surveillance (In conjunction with ECCV 2006), pp. 33-40, Graz (Austria), 13th May, 2006, Prithwijit Guha, Arindam Biswas, Amitabha Mukerjee and K.S. Venkatesh.
344. Human Activity Recognition, Proceedings of The 9th Asian Symposium on Information Display October 8 to 12, 2006, New Delhi, India, Varsha H Chandrashekhar, K S Venkatesh.
345. A Robust Algorithm for Photo Realistic Image Rendering and Stereo Compression of Real-World Scenes, Proceedings of The 9th Asian Symposium on Information Display October 8 to 12, 2006, New Delhi, India, M P Sriram, K S Venkatesh.
346. On Design Of A Question-Answering Interface For Hindi In A Restricted Domain, ICAI06 - The 2006 International Conference on Artificial Intelligence, Las Vegas, Nevada, USA, June 26-29, 2006, R. M. K. Sinha.

347. On Translation Of Interrogative Sentences From Hindi To English, MLMTA06-The 2006 International Conference on Machine Learning; Models, Technologies and Applications, Las Vegas, Nevada, USA, June 26-29, 2006, R.M.K. Sinha and A. Thakur.
348. A Hybrid Approach to Sentence Alignment Using Genetic Algorithm, Proceedings of International Conference on Computing: Theory and Applications (ICCTA 2007), IEEE Computer Society Press, March 2007. Mrityunjay Gautam and R.M.K. Sinha.
349. Optical loop memory for photonic switching application Journal of Optical Networking, Vol.6, Issue.4, 2007, pp.341-348, Rajiv Srivastava, Rajat Kumar Singh and Yatindra Nath Singh.
350. Second Phase Reconfiguration of Restored Path for Removal of Loop Back in p-Cycle Protection, IEEE Communication letters, Vol.11, No.2, pp.201-203, Rachna Asthana, Y.N.Singh.
351. Wavelength Division Multiplexed Loop Buffer Memory based Optical Packet Switch, Optical and Quantum Electronics, published online 14 March 2007, Rajat Kumar Singh, Rajiv Srivastava, Y. N. Singh.
352. A new approach to the Data Vortex switch architectures, Photonics 2006, Hyderabad, India, Dec 2006, Rajat Kumar Singh, Rajiv Srivastava and Yatindra Nath Singh.
353. Performance evaluation of fiber optic loop buffer switch, Photonics 2006, Hyderabad, India, Dec 2006, Rajiv Srivastava, Rajat Kumar Singh and Yatindra Nath Singh.
354. Removal of Loop Back in p-cycle Protection: Second Phase Reconfiguration, 10th IEEE International Conference on Communications Systems, 30 Oct -01 Nov 2006, paper no.1568991527, Singapore, Rachana Asthana, Y.N.Singh.
355. A modified photonic switch architecture based on fiber loop memory, IndiCon 2006, Delhi, 14-15 Sept 2006, Rajiv Srivastava, Rajat Kumar Singh, Vipin Mangal, Y.N.Singh.
356. Wavelength routed shared buffer based feed-forward architectures for optical packet switching, IndiCon 2006, Delhi, 14-15 Sept 2006, Rajat Kumar Singh, Rajiv Srivastava, Vipin Mangal, Y.N.Singh.
357. Experiences in using WiFi for Rural Internet in India, IEEE Communications Magazine, Special Issue on New Directions In Networking Technologies In Emerging Economies, Volume: 45, Issue 1, pp. 104-110, Jan 2007, B. Raman and K. Chebrolu.
358. Bandwidth Aggregation for Real-Time Applications in Heterogeneous Networks, IEEE Transactions on Mobile Computing, Volume 5 , Issue 4, pp. 388-403, April 2006, K. Chebrolu and R. R. Rao.

359. S-WOW: Signature based Wake-on-WLAN, The First Annual Workshop on Wirelless Systems: Advanced Research and Development (WISARD 2007), A COMSWARE 2007 Workshop, Bangalore, India, January 2007, Nilesh Mishra, Dheeraj Golchha, Akhilesh Bhadauria, Bhaskaran Raman, Kameswari Chebrolu.
360. Implications of Link Range and (In)Stability on Sensor Network Architecture, The First ACM International Workshop on Wireless Network Testbeds, Experimental evaluation and CHaracterization (WiNTECH 2006), A MOBICOM 2006 Workshop, Sep 2006, Los Angeles, USA, B. Raman, K. Chebrolu, N. Madabhusi, D. Gokhale, P. Valiveti and D. Jain.
361. Long-Distance 802.11b Links: Performance Measurements and Experience, 12th Annual International Conference on Mobile Computing and Networking (MOBICOM), Sep 2006, Los Angeles, USA, K. Chebrolu, B. Raman and S. Sen.
362. Wake-on-WLAN, The 15th Annual International World Wide Web Conference (WWW 2006), May 2006, Edinburgh, Scotland, N. Mishra, K. Chebrolu, B. Raman, and A. Pathak.
363. A Few Outstanding Ideas of Ancient India and its Present Relevance, Proceedings of the National Seminar on Bharatiya Heritage in Engineering and Technology, 11 - 13 May, 2006, Indian Institute of Science, Bangalore, G.C.Ray.
364. A Few Outstanding Ideas of Ancient India and its Present Relevance, Proceedings of the National Seminar on Bharatiya Heritage in Engineering and Technology, 11 - 13 May, 2006, Indian Institute of Science, Bangalore, G.C.Ray.
365. An Accurate, Analytical, and Technology-Mapped Definition of the Surface Potential at Threshold and a New Postulate for the Threshold Voltage of MOSFETs, Solid-State Electronics, Vol. 50, No. 11-12, 2006, 1814-1821, Vaskar Sarkar and A.K. Dutta
366. A compact ψ_s -based MOSFET model incorporating quantum mechanical effects, Solid-State Electronics, Vol. 50, No. 7-8, 2006, 1299-1309, Dipanjan Basu and A.K. Dutta
367. Study of Optical and Electrical Properties of Imidazolin-5-one Molecules for Optoelec-tronic Applications, Proceedings of ASID 2006, 8-12 October 2006, New Delhi, 244-247, V. Jain, G. Bhattacharjya, Arun Tej, C.K. Suman, R. Gurunath, B. Mazhari, and S.S.K. Iyer.
368. Photovoltaic Behaviour of Organic Polymer - PCBM Bulk Hetero Junctions Solar Cells, S. IETE Journal of Research, vol. 52, No. 5, September-October, 2006, 391-399, Sundar Kumar Iyer, Dipesh Bajaj and Amruta Bhat.
369. Imidazolin-5-ones in organic semiconductor diodes, Proceedings of International Conference on Molecules to Materials, 2006, Longowal India, 8-12, Gitalee Bhattacharjya, Arun Tej Malljosyula, S.S.K. Iyer and Gurunath Ramanathan.

370. An Improved Solar Cell Circuit Model For Organic Solar Cells, Solar Energy Materials and Solar Cells, Volume 90, Issues 7-8, 5 May 2006, 1021-1033, B. Mazhari,
371. Impact of Organic film thickness on unity current gain frequency of top contact organic thin film transistors, Proceedings of Asian Symposium on information display (ASID), Oct. 8-12, 2006, 419, M.N. Islam and B. Mazhari,
372. Current Copying accuracy and Threshold Voltage Sensitivity in Current Driven Active Matrix Organic Light Emitting Display (AMOLED), Proceedings of Asian Symposium on information display (ASID), Oct. 8-12, 2006, 480, D.K. Gupta and B. Mazhari
373. Study of optical and Electrical properties of Imidazolin-5-one Molecules for optoelectronic applications, Proceedings of Asian Symposium on information display (ASID), Oct. 8-12, 2006, pp. 244, V. Jain, G. Bhattacharjya, A. Tej, C.K. Suman, R. Gurunath, B. Mazhari, and S.S.K. Iyer
374. Impact of Kink effect on performance of Poly-Silicon Based TFT Differential Amplifiers, Proceedings of Asian Symposium on information display (ASID), Oct. 8-12, 2006, pp. 407, R. Bisht and B. Mazhari
375. Optimum supply voltage for minimization of Leakage Currents through SRAM cell in stand-by mode, Proceedings 20th International Conference on VLSI Design, Jan. 6-10, 2007, Bangalore, Lava Kumar and B. Mazhari
376. A Simple Semi-Analytical Model for the Kink Effect for Intrinsic N-Channel Polysilicon Thin Film Transistors, Electron Technology Internet Journal, 39, Jan 2007, 1-4, M.J. Siddiqui, S. Qureshi, S. M. Alshariff
377. Dispersion and Attenuation Characteristics of Asymmetric Multiconductor Lines in Suspended Substrate Structure using Full wave Modal Analysis, Microwave Optical Technology Letters, John Wiley, USA, Vol-48, Issue 7, pp.1305-1310, July 2006, K. V. Srivastava, S. Awasthi and A. Biswas.
378. Full-wave analysis of single and coupled striplines in multilayered cylindrical dielectrics using the 3D TLM method, Microwave and Optical Technology Letters, Volume 48, Issue 2, Pages: 298-302, February 2006, Alok Kumar Gupta, Akhilesh Mohan, Animesh Biswas.
379. Effect of Anisotropy on Effective Dielectric Constant and Characteristic Impedance of Multi-port Fin-lines, European Microwave Conference06, Manchester, September 2006, Kumar Vaibhav Srivastava, Seema Awasthi and Animesh Biswas.
380. A novel compact defected ground structure (DGS) low pass filter, AsiaPasific Microwave Conference2006, Japan, December 2006, Mohan and A. Biswas.
381. An efficient FDTD algorithm for computation of resonance frequency of an inhomogenous cylindrical structure, AsiaPasific Microwave Conference2006, ,

- Japan, December 2006, Kumar Vaibhav Srivastava, Vishwa V. Mishra and Animesh Biswas.
382. A Novel Coupled Defected Ground (DGS) Resonator Bandpass Filter, submitted to European Microwave Conference07, Munich, September, 2007, Akhilesh Mohan, Animesh Biswas.
 383. An Investigation of Novel EBGStructure for Wide Stopband and Sharp Rejection, submitted to European Microwave Conference 07, Munich, September, 2007, Akhilesh Mohan, Animesh Biswas.
 384. Neural network learning with generalized-mean based neuron model, *Soft Computing*, Volume 10, Feb 1, 2006, pp.257-263, R.N.Yadav, Prem K Kalra, Joseph John.
 385. Improved power distribution in diffuse Indoor Optical Wireless systems employing multiple transmitter configurations, *Optics and Quantum Electronics*, Vol. 38(8), 2006, pp.711-725, A. Sivabalan and Joseph John.
 386. Effect of transmitter positions on received power and bandwidth in diffuse indoor optical wireless systems, *Optics and Quantum Electronics*, (Online) (<http://dx.doi.org/10.1007/s11082-007-9064-x>), A.Sivabalan and Joseph John.
 387. Performance analysis of Diffuse Indoor Optical Wireless Systems in Ambient Noise Environments, *Proceedings of the 12th National Conference on Communications (NCC-2006)*, IIT Delhi, India, pp.460-464, Jan. 27-29, 2006, A. Sivabalan and Joseph John.
 388. Improved Transmitter Placements for Near Uniform Power Distribution in Multiple Transmitter Indoor Optical Wireless Systems, *13th National Conference on Communications (NCC-2007)*, IIT Kanpur, India, Jan. 26-28, 2007, pp.132-136, A.Sivabalan and Joseph John.
 389. Multiple Transmitter Indoor Optical Wireless Systems: Prospects and Design Challenges, *PHOTONICS 2006*, Hyderabad, India, Dec 13-16, 2006, OCN-7 (Invited paper), Joseph John and A.Sivabalan.
 390. Ground clutter filtering dual-polarized, staggered PRT sequences. *Journal of Atmospheric and Oceanic Technology*, volume 23, August 2006, pp.1114-1130, M.Sachidananda and Dusan S Zrnic.
 391. Spectral processing of staggered PRT sequences to remove clutter and obtain polarimetric variables., *Proceedings of ERAD 2006*, Dusan Zrnic, M. Sachidananda.
 392. A Model for wideband nonlinear amplifier Microwave-06, University of Rajasthan, Jaipur, Sept 2006, Mehta Kalpesh, A.R. Harish, Meenakshi Singh and Sudeep Bhattacharjee.
 393. A dual-band modified bow-tie antenna for WLAN Microwave-06, University of Rajasthan, Jaipur, Sept 2006, Ravi Kumar Joshi and A.R. Harish.
 394. Ravi Kumar Joshi and A.R. Harish 2006 Characteristics of a rotated butterfly

- radial stub International Microwave Symposium, USA, 2006
395. UHF RFID tag antenna - design and measurements International conference on computational fluid dynamics, acoustics, heat transfer and electromagnetics, Andhra University, Vishakhapatnam., July 2006, Rachana Pandit and A.R. Harish.
 396. An improved wire grid reflector for a log periodic dipole array International conference on computational fluid dynamics, acoustics, heat transfer and electromagnetics, Andhra University, Vishakhapatnam., July 2006, Manpreet Kaur Saini and A.R. Harish.
 397. High frequency wideband chaos using solid state amplifier International Symposium on Microwaves, Bangalore, Dec 2006, A.R. Harish, Mehta Kalpesh, Meenakshi Singh and Sudeep Bhattacharjee
 398. A triple band bow-tie antenna for mobile and wlan applications International Symposium on Microwaves, Bangalore, Dec 2006, Ravi Kumar Joshi and A.R. Harish.
 399. Optical loop memory for photonic switching application Journal of Optical Networking, Vol.6, Issue.4, 2007, pp.341-348, Rajiv Srivastava, Rajat Kumar Singh and Yatindra Nath Singh.
 400. Second Phase Reconfiguration of Restored Pathfor Removal of Loop Back in p-Cycle Protection, IEEE Communication letters, Vol.11, No.2, pp.201-203, Rachna Asthana, Y.N.Singh.
 401. Wavelength Division Multiplexed Loop Buffer Memory based Optical Packet Switch, Optical and Quantum Electronics, published online 14 March 2007. Rajat Kumar Singh, Rajiv Srivastava, Y.N.Singh.
 402. A new approach to the Data Vortex switch architectures, Photonics 2006, Hyderabad, India, Dec 2006, Rajat Kumar Singh, Rajiv Srivastava and Yatindra Nath Singh.
 403. Performance evaluation of fiber optic loop buffer switch, Photonics 2006, Hyderabad, India, Dec 2006, Rajiv Srivastava, Rajat Kumar Singh and Yatindra Nath Singh.
 404. Removal of Loop Back in p-cycle Protection: Second Phase Reconfiguration, 10th IEEE International Conference on Communications Systems, 30 Oct -01 Nov 2006, paper no.1568991527, Singapore, Rachana Asthana, Y.N.Singh.
 405. A modified photonic switch architecture based on fiber loop memory, IndiCon 2006, Delhi, 14-15 Sept 2006, Rajiv Srivastava, Rajat Kumar Singh, Vipin Mangal, Y.N.Singh.
 406. Wavelength routed shared buffer based feed-forward architectures for optical packet switching, IndiCon 2006, Delhi, 14-15 Sept 2006, Rajat Kumar Singh, Rajiv Srivastava, Vipin Mangal, Y.N.Singh.

407. Optimal actuation of micro-cantilevers by laser radiation pressure, *Electronics Letters*, Vol. 42, pp. 580-581, May 2006, Ghosh and S. Pal .
408. Fiber Optic Sensing of Liquid Refractive Index, *Sensors and Actuators A*, 2006, Banerjee, S. Mukherjee, B. Jana, R. Verma, T. Khan, M. Chakroborty, R. Das, S. Biswas, A. Saxena, V. Singh, S. Kumar, V. Saxena, A. Ghosh, J. John, P. Gupta-Bhaya.
409. Optimal actuation of a MEMS cantilever by a laser beam, *Opto-mechatronic Actuators, Manipulation and Systems Control: Proc. SPIE*, Vol. 6374, paper no. 63740O, Oct. 2006, S. Pal and A. Ghosh.
410. Design and calibration of low-cost fiber optic sensors for refractive index measurement of turbid liquids, *Chemical and Biological Sensors for Industrial and Environmental Monitoring II: Proc. SPIE*, Vol. 6378, paper no. 63780V, Oct. 2006, P. Gupta Bhaya, A. Ghosh, V. Saxena and J. John.
411. Absorption Profile of Quantum Well Intermixed InGaAsP/InP Waveguide Photodiode Structures, Tathagata Bhowmick, Utpal Das, Anurag Nigam, and Avijit Singh, pp465-468, *Proceedings of the 3rd International Conference on Computers and Devices for Communication (CODEC-06)*, Institute of Radio Physics and Electronics, University of Calcutta, December 18-20, 2006.
412. Grating Assisted Lateral directional Coupler Employing InGaAs/GaAs Multiquantum Wells and its Analysis Using Mode Conversion Technique, Ajit Barve and Utpal Das, pp411-414, *Proceedings of the XIII National Conference on Communications*, 26-28 January 2007, IIT Kanpur.
415. Sharma, R.R.K. and Berry, V., Developing New Formulations and Relaxations of Single Stage Capacitated Warehouse Location Problem (SSCWLP): Empirical Investigation for Assessing Relative Strengths and Computational Effort, *European Journal of Operational Research*, 2007, V 177, pp. 803-812.
416. Singh, Anoop, *Power Sector Reform in India: Current Issues and Prospects*, *Energy Policy*, Volume 34, Issue 16, November 2006.
417. Kandathil, George Mathew & Varman, Rahul 2007, Contradictions of Employee Involvement, Information Sharing, and Expectations: A Case Study of an Indian Worker Cooperative. *Economic and Industrial Democracy* 2007, 28, 1, 145-179.
418. Varman, Rahul 2006, Why are we Against the Reservations? *E- Social Sciences*, http://www.esocialsciences.com/articles/displayArticles.asp?Article_ID=530
419. Varman, Rohit and Ram Manohar Vikas (2007) Freedom And Consumption: Toward Conceptualizing Systemic Constraints For Subaltern Consumers In A Capitalist Society. *Consumption, Markets and Culture*, 10 (2): 117-131.
420. Ram Manohar Vikas and Rohit Varman (2007) Erasing Futures: Ethics Of Marketing An Intoxicant To Homeless Children. *Consumption, Markets and Culture*, 10 (2): 189-202.

421. Veena Bansal and Vivek Pandey, A Decision-Making Framework for IT Outsourcing using the Analytic Hierarchy Process, *Journal of Academy of Business and Economics* South Stockholm University, Sweden, 2006.
422. Veena Bansal, Evaluation, Rating and Certification of Web Documents, *Journal of Tehnology, Knowledge and Society*, organized by Common Grounds, Melbourne, Australia, at Hyderabad, Dec 12-15, 2006
423. Veena Bansal and A K Mittal, Mining the Patent Database, *Directions*, Indian Institute of Technology, vol 7, no 3, pp 62-69, Feb 2006.
424. Anoop Singh, Economic Policy and Regulatory Initiatives to Address Technical Challenges in the Indian Power Sector, *Directions IIT Kanpur*.
425. Technology Mapping using patent literature for supply chain Management, *Int. J. Logistics and Management* , V3 N4 2007, Ashok K Mittal, Bhuvanesh Mirdha.
426. I Mahdavi, J Rezaeian, Kripa Shanker and Z Raftani Amiri, A Set Partitioning based Heuristic Procedure for Incremental Cell Foramation with Routing Flexibility, *International Journal of Production Research*, Vol. 44, No 24, pp 5343-361, 2006.
427. Gouthama, G.B. Rudrakshi and S.N. Ojha, Spray forming and wear characteristics of liquid immiscible alloys, *Journal of Materials Processing Technology*, 189 (2007) 224-230.
428. Nidhi Singh, Gouthama and Vakil Singh, Low cycle fatigue behaviour of Ti alloy Timetal 834 at 873 K. *International Journal of Fatigue*, 29 (2007) Pages 843-851.
429. S. Sankaran, Gouthama, S. Sangal and K. A. Padmanabhan, Transmission Electron Microscopy Studies of Thermomechanically Control Processed Multiphase Medium -Carbon Microalloyed Steel , *Low-Cycle Fatigued Microstructure*, *Metallurgical & Materials Transactions A*, 37 A (2006) 3259
430. S. Sankaran, G. Malakondaiah, Gouthama, S. Sangal and K. A. Padmanabhan, Static and Dynamic Fracture Toughness of a Medium Carbon Microalloyed Steel of Three Different Microstructures, *Metallurgical & Materials Transactions A*, 37 A (2006) 1191
431. S.S. Panda, V. Singh, A. Upadhyaya, and D. Agrawal, Sintering Response of Austenitic (316L)and Ferritic (434L) Stainless Steel Consolidated in Conventional and Microwave furnaces, *Scripta Materialia*, 2006, v. 54, pp. 2179-2183.
432. S.S. Panda, V. Singh, A. Upadhyaya, and D. Agrawal, Effect of Conventional and Microwave Sintering on the Properties of YAG Dispersed Austenitic Stainless Steel, *Metallurgical & Materials Transactions A*, 2006, v. 37, pp. pp. 2253-2265.

433. P. Mishra, G. Sethi, and A. Upadhyaya, Modeling of Microwave Heating of Particulate Metals, *Metallurgical & Materials Transactions B*, 2006, v. 37, pp. 839-845.
434. P.P. Bhattacharjee, R.K. Ray, and A. Upadhyaya, Development of Textured Single Layer and Multi-layer Coated Superconductor Substrates by Powder Metallurgy Route, *Transactions PMAI*, 2006, v. 32, pp. 57-61.
435. Effect of Heating Mode and Sintering Temperature on Densification and Microstructure of Premixed and Prealloyed Bronze, *Transactions PMAI*, 2006, v. 32, pp. 114-123.
436. U. Ravikiran and A. Upadhyaya, Effect of Copper Powder Type and Sintering Temperature on Sintering of Cu-10Sn Alloys through Conventional and Microwave Sintering, *Transactions PMAI*, 2006, v. 32, pp. 124-127.
437. C. Padmavathi, S.S. Panda, D. Agarwal, A. Upadhyaya, Effect of Microstructural Characteristics on Corrosion Behaviour of Microwave Sintered Stainless Steel Composites, *Materials Science Technology*, 2007, pp. 517-528.
438. S. Balaji and A. Upadhyaya, Electrochemical Behavior of Sintered YAG Dispersed 316l Stainless Steel Composites, *J. Material Chemistry & Physics*, 2007, v. 101, pp. 310-316.
439. A Upadhyaya, S.K. Tiwari, and P. Mishra, Microwave Sintering of W-Ni-Fe Alloy, *Scripta Materialia*, 2007, v. 56, pp. 5-8.
440. P.P. Bhattacharjee, S.K. Sinha, and A. Upadhyaya, Effect of Sintering Temperature on Grain Boundary Structure of Ni Compacts, *Scripta Materialia*, 2007, v. 56, pp. 13-16.
441. S. Balaji, G. Joshi, A. Upadhyaya, Corrosion Behavior of Sintered Aluminide Reinforced 434L Ferritic Stainless Steel, *Scripta Materialia*, 2007, v. 56, pp. 149-151.
442. A Upadhyaya and G. Sethi, Effect of Heating Rate and Sintering Temperature on Densification and Microstructural Homogenization in Premixed Bronze, *Scripta Materialia*, 2007, v. 56, pp. 469-472.
443. S.S. Panda, A. Upadhyaya, and D. Agrawal, Effect of Heating Mode and Temperature on Sintering of YAG Dispersed 434L Ferritic Stainless Steel, *Journal Material Science*, 2007, v. 42, pp. 966-978.
444. S. Balaji, P. Vijay, A. Upadhyaya, Effect of Sintering Temperature on the Electrochemical, Hardness and Tribological Properties of Aluminide Reinforced Austenitic Stainless Steel, *Scripta Materialia*, 2007, v. 56, pp. 1063-1066.
445. A.K. Agarwal, A. Garg, D. Srivastava and M. K. Shukla, Investigation into wear characteristics of hard coated stainless steel rings for automobile applications, *Surface Coatings and Technology*, 201 (13) 6182-6188 (2007)

446. S. Pramanik, A. Agarwal, K.N. Rai and A. Garg, Development of High Strength Hydroxyapatite by Solid-State-Reaction Process, *Ceramics International*, 33 (3), 419-426 (2007).
447. A Garg, X. Hu and Z.H. Barber, Lanthanide Doped Bismuth Titanate Films Grown by Chemical Solution Deposition and Pulsed Laser Ablation: A Comparison, *TMS Letters*, 3 (2), 35-36 (2006)
448. M A Khan, A Garg, and A J Bell, Pulsed laser deposition and characterization of $(\text{BiFeO}_3)_{0.7}(\text{PbTiO}_3)_{0.3}$ thin films, *J. Phys.: Conf. Ser.* 26, 288-291 (2006)
449. X. Hu, A. Garg and Z.H. Barber, Deposition and Characterization of Pulsed-Laser-Deposited and Chemical-Solution-Derived Sm-Substituted Bismuth Titanate Films, *Integrated Ferroelectrics*, 79, 113-121 (2006)
450. Prem Prakash, Mukesh Kumar Roy, Ashish Garg and Harish Chandra Verma, Novel Low Temperature Processing and Characterization of Ferroelectric Bismuth Titanate Nanopowders, *Journal of American Ceramic Society*, 90 (4), 1295-1298 (2007)
451. Harikishore S. and S.C.Koria, Two dimensional modeling of transport and solidification phenomena and spray deposition, *Trans. Indian Inst. Met.* 59, No.3 June 2006, PP 359-372
452. Manas R. Tripathi, Ravindra K.Dube and Satish C.Koria, Rolling behaviour of steel backed Al-Sn strip, *J. Materials Processing Technology*, August 2007
453. Manas Ranjan Tripathy, B. V. Manoj Kumar, Bikramjit Basu, R. K. Dube, S. C. Koria; Tribological Behavior of Steel Backed Al-Sn Strips prepared via Spray Atomization-Deposition- Rolling Route, *Materials Science and Technology* 23 [12] (2007) 1
454. D. S. Bilgi, V. K. Jain, R. Shekhar, A. V. Kulkarni: Hole quality and interelectrode gap dynamics during pulse current electrochemical deep hole drilling, *International Journal of Advanced Manufacturing Technology*, March 2006, DOI 10.1007/s00170-006-0572-9.
455. D. Bhunia, S. P. Mehrotra, R. Shekhar: A novel probe for measuring current distribution in woods metal in a simulated Hall-Heroult cell, *Trans. Inst. Min. Metall. C*, v 115, 2006, pp. 206-212.
456. Effect of Cerium Addition on the Corrosion Behaviour of Carbon-alloyed Iron Aluminides, S. Sriram, R. Balasubramaniam, M.N. Mungole, S. Bharagava and R.G. Baligidad, *Corrosion Science*, 48 (2006) 1054-1079.
457. Catalogue of Massive Forge Welded Iron Cannons of India-I, R. Balasubramaniam, *Journal of Ordnance Society*, 17 (2005) 67-90.
458. Studies on Phosphoric Irons for Concrete Reinforcement Applications, S. Gadadhar and R. Balasubramaniam, *Transactions of the Indian Institute of Metals*, 59 (2006) 245-253.

459. Effect of surface treatment on electrochemical behavior of CP Ti, Ti-6Al-4V and Ti-13Nb-13Zr alloys in simulated human body fluid, A.K. Shukla and R. Balasubramaniam *Corrosion Science*, 48 (2006) 1696-1720.
460. Electrochemical Impedance Spectroscopy and Cyclic Voltammetry Study of Carbon-alloyed Iron Aluminides in Sulfuric Acid, A.K. Nigam, R. Balasubramaniam, S. Bhargava and R.G. Baligidad, *Corrosion Science*, 48 (2006) 1666-1678.
461. Archaeometallurgy of Ancient Indian Copper, R. Balasubramaniam, *Transactions of the Indian Institute of Metals*, 59 (2006) 899-909.
462. Surface Film Nature on Titanium-Aluminium-Iron Alloys in Simulated Human Body Fluid Conditions, A.K. Shukla and R. Balasubramaniam, *Metals, Materials and Processes*, 18 (2006) 421-430.
463. Development of Novel Brasses to Resist Dezincification, R. Karpagavalli and R. Balasubramaniam, *Corrosion Science*, 49 (2007) 963-979
464. Corrosion Inhibition of Aluminum Alloy 2014 by Rare Earth Chlorides, Ajit Kumar Mishra and R. Balasubramaniam, *Corrosion Science*, 49 (2007) 1027-1044.
465. Corrosion Behaviour of SiC Reinforced Magnesium Composites, S. Tiwari, R. Balasubramaniam and M. Gupta, *Corrosion Science*, 2006, 49 (2007) 711-725
466. Corrosion Inhibition of 6061-SiC by Rare Earth Chlorides, Ajit Kumar Mishra, R. Balasubramaniam and Shruti Tiwari, *Anti-Corrosion Methods and Materials*, 54 (2007) 37-46.
467. Corrosion Inhibition of AA 6061 by Rare Earth Chlorides, Ajit Kumar Mishra and R. Balasubramaniam, *Corrosion*, 63 (2007) 240-248.
468. Mechanical Behavior of Novel Phosphoric Irons for Concrete Reinforcement Applications, Gadadhar Sahoo and R. Balasubramaniam, *Scripta Materialia*, 56 (2007) 117-120.
469. Electrochemical behavior of TiCN-Ni based cermets, B.V. Manoj Kumar, R. Balasubramaniam and B. Basu, *Journal of the American Ceramic Society*, 90 (2007) 205-210.
470. Emila Panda, Dipak Mazumdar and S.P.Mehrotra, *Mathematical Modeling of Particle Segregation During Centrifugal Casting of Metal Matrix Composites*, *Materials and Metallurgical Transactions*, Vol. 27A, 2006, p.1675
471. Sujoy Pandit Patil and Dipak Mazumdar, *Prediction of Strand Superheat in Continuous Casting: Modeling and Industrial Scale Measurements on Steelmaking Tundish Systems*, *Steel Frips*, Vol.6, 2006, P.45.
472. Dipak Mazumdar and J.W.Evans, *Modeling of Slag Eye Formation Over a Metal Bath Due to Gas Injection*, *Materials and Metallurgical Transactions*, June (2007), Vol.38B, No.3

473. A. Basu, G. B. Raju and A. K. Suri, Processing and properties of TiB₂-based materials: A review, *International Materials Reviews* 51 [6] (2006) 352-374.
474. Amartya Mukhopadhyay and Bikramjit Basu; Consolidation-Microstructure-Property relationships in Bulk Nanoceramics and Ceramic Nanocomposites: A review; *International Materials Reviews* 52 [4] (2007) 1-32.
475. A. V. Manoj Kumar, J. Ramkumar, B. Basu and S. Kang; Electro-discharge machining performance of TiCN-based cermets, *Int. J. Refractory and Hard Materials* 25 (2007) 293-299.
476. Krishanu Biswas, Amartya Mukhopadhyay, Bikramjit Basu and Kamanio Chattopadhyay, Densification and microstructure development in Spark Plasma Sintered WC-6 wt. % ZrO₂ Nanocomposites; *J. Mat. Res.* 22 [6] (2007) 1-11.
477. Debdas Roy, Sumit Ghosh, Amitava Basu Mallick, Bikramjit Basu; Preparation of Ti-aluminide reinforced in-situ aluminium matrix composites by reactive hot pressing; *J. Alloys and Compounds* 236 (2007) 107-111.
478. A. Sarkar, B. Basu, M. C. Chu and S. J. Cho, R-curve behavior of Ti₃SiC₂; *Ceramics International* 33 (2007) 789-793.
479. Debasish Sarkar, Bikramjit Basu, Min Cheol Chu and Seong Jai Cho; Is Glass Infiltration Beneficial to Improve Fretting Wear Properties for Alumina?; *J. Am. Cer. Soc.*, 90 [2] (2007) 523-532.
480. Amartya Mukhopadhyay, Bikramjit Basu, S. Das Bakshi and S. K. Mishra; Pressureless sintering of ZrO₂-ZrB₂ composites: microstructure and properties; *Int. Journal of Refractory and Hard Materials* 25 (2007) 179-188.
481. A. V. Manoj Kumar, B. Basu, J. Ramkumar and S. Kang, Erosion wear behavior of TiCN-Ni cermets containing secondary carbides (WC/NbC/TaC), *J. Am. Cer. Soc.* 89 [12] (2006) 3827-31.
482. M. C. Chu, S. J. Cho, D. Sarkar, B. Basu, G. J. Yoon and H. M. Park; Oxidation-Induced Strengthening in Ground Silicon Carbide, *J. Mat. Sc.* 41(15) (2006) 4978-4980.
483. S. Das Bakshi, B. Basu and S. K. Mishra, Microstructure and Mechanical Properties of Sinter-HIPed ZrO₂-ZrB₂ Composites; *Composites A* 37 (2006) 2128-2135.
484. Amartya Mukhopadhyay, T. Venkateswaran, Rajneesh Verma and Bikramjit Basu, Processing-structure-property correlation of bulk ceramic nanomaterials, *Transactions of Indian Institute of Metals* 59 [3] (2006) 303-319.
485. S. Das Bakshi, B. Basu and S. K. Mishra, Fretting wear properties of Sinter-HIPed ZrO₂-ZrB₂ Composites; *Composites A*, 37 (2006) 1652-1659.
486. Debdas Roy, Bikramjit Basu, Amitava Basu Mallick, B. V. Manoj Kumar and Sumit Ghosh; Unlubricated Friction and Wear behavior of Fe-aluminide reinforced Al-based in-situ metal matrix composite; *Composites: Part A* 37 (2006) 1464-1472.

487. A. Basu, M. Lewis, M. E. Smith, M. Bunyard and T. Kemp; Microstructure Development and Properties of novel Ba-doped S-Phase Sialon ceramics; *J. Eur. Cer. Soc.* 26 (2006) 3919-3924.
488. Bikramjit Basu, T. Venkateswaran, and Doh-Yeon Kim; Microstructure and Properties of Spark Plasma Sintered ZrO_2 - ZrB_2 Nanoceramic composites; *J. Am. Cer. Soc.* 89 [8] (2006) 2405-2412.
489. A. Sarkar, B. V. Manoj Kumar and B. Basu; Understanding the fretting wear of Ti_3SiC_2 ; *J. Eur. Cer. Soc.* 26 (2006) 2441-2452.
490. T. Venkateswaran, B. Basu, G. B. Raju and Doh-Yeon Kim; Densification and properties of Transition metal borides-based cermets via Spark Plasma Sintering, *J. Eur. Cer. Soc.* 26 (2006) 2431-2440.
491. A. Roy, S. Ghosh, A. Basumallick and B. Basu; Preparation of Fe-aluminide reinforced in situ metal matrix composites by reactive hot pressing; *Mat. Sc. Engg. A* 415 (2006) 202-206.
492. S. Bodhak, B. Basu, T. Venkateshwaran, Wook Jo, Kyung-Hwan Jung and Doh -Yeon Kim; Mechanical and Fretting Wear Behavior of Novel (W,Ti)C-Co cermets, *J. Am. Cer. Soc.*, 89 [5] (2006) 1639-1651.
493. K. Biswas, B. Basu, A. K. Suri and K. Chattopadhyay; A TEM study on TiB_2 -20 % $MoSi_2$ Composite: Microstructure development and densification Mechanisms; *Scripta Materialia*, 54 (2006) 1363-1368.
494. T. S. R. Ch. Murthy, B. Basu, Amitesh Srivastava, R. Balasubramaniam and A.K. Suri; Tribological Properties of TiB_2 and TiB_2 - $MoSi_2$ Ceramic Composites, *J. Eur. Cer. Soc.*, 26 (2006) 1293-1300.
495. Rohit Khanna and Bikramjit Basu, Low Friction and Severe wear of Alumina in cryogenic environment: A first report; *J. Mat. Res.*, 21 [4] (2006) 832-843.
496. B. Subramonian and B. Basu; Development of a high-speed cryogenic tribometer: Design concept and experimental results; *Mat. Sc. Engg. A* 415 (2006) 72-79.
497. Shekhar Nath, Bikramjit Basu and Arvind Sinha; A Comparative Study of Conventional Sintering with Microwave Sintering of Hydroxyapatite Synthesized by Chemical Route; *Trends Biomater. Artif. Organs*, 19[2] (2006) 93-98.
498. T. S. R. Ch. Murthy, B. Basu, R. Balasubramaniam, A.K. Suri, C. Subramonian and R. K. Fotedar; Processing and Properties of TiB_2 with a $MoSi_2$ Sinter-Additive: A First Report, *J. Am. Cer. Soc.* 89[1] (2006) 131-138.
499. T. S. R. Ch. Murthy, R. Balasubramaniam, B. Basu, A.K. Suri and M.N. Mungole, Oxidation of Monolithic TiB_2 and TiB_2 -20 wt % $MoSi_2$ Composite at 850oC, *J. Eur. Cer. Soc.* 26 [1-2] (2006) 187-192.
500. T. Venkateswaran, D. Sarkar and B. Basu, WC- ZrO_2 Composites: Processing and Unlubricated Tribological Properties, *WEAR* 260 [1-2] (2006) 1-9.

501. Dynamic crack initiation and propagation in nanocomposite materials, *Reviews on Advanced Materials Science*, 13 (1): Nov 2006, 47-58, A. Shukla, V. Parameswaran, Y. Du, V. Evora.
502. Estimation of fracture parameters and stress field for edge cracks in finite elastically graded plates using boundary collocation, *Acta Mechanica*, 184 (1-4): Jul 2006, 159-170, V. Parameswaran, S. Sharma.
503. Large-Eddy Simulation of Unsteady Surface Pressure on a LP Turbine Blade due to Interactions of Passing Wakes and Inflexional Boundary Layer, *ASME Journal of Turbomachinery*, Vol. 128, 2006, pp. 221-231, S. Sarkar and P.R. Voke.
504. A Three-dimensional Numerical Modeling of Atmospheric Pool Boiling by the Coupled Map Lattice Method, *ASME Journal of Heat Transfer*, Vol. 128, No. 11, 2006, pp. 1149-1158, A. Gupta and P.S. Ghoshdastidar.
505. Deformation banding and shear banding in single crystals, *Acta Materialia*, 54 (17), 4565-4574, 2006, S. Mahesh.
506. Hydrogen addition to acetylene-air laminar diffusion flames: Studies on soot formation under different flow arrangements, *Combustion and Flame*, Vol. 148, Issue 4, March 2007, pp 249-262. P. Pandey, B.P. Pundir and P.K. Panigrahi.
507. Sensitivity of a square cylinder wake to forced oscillations, *ASME Journal of Fluids Engineering*, July (2007). S. Dutta, P.K. Panigrahi and K. Muralidhar.
508. Interface deformation and convective transport in a horizontal differentially heated air-oil layer, *FDMP: Fluid Dynamics & Materials Processing*, 2007. S.K. Sahu, K. Muralidhar, and P.K. Panigrahi.
509. Measurement of three-dimensional concentration gradients around a crystal growing from its aqueous solution using laser schlieren, *Crystal Research and Technology*, 2007, Atul Srivastava, K. Muralidhar and P.K. Panigrahi.
510. Beam-hardening in Simulated X-ray Tomography, accepted for publication in *Non-destructive Testing and Evaluation International*, Vol. 39, 2006, pp. 449-457, K. Ramakrishna, K. Muralidhar and P. Munshi.
511. Experimental Validation of Heat Transfer Models for Flow through a Porous Medium, *Heat and Mass Transfer/Waerme- und Stoffuebertragung*, Vol. 43 (1), 2006, pp. 55-72, Chanpreet Singh, R. Tathgir and K. Muralidhar.
512. Influence of layer height on thermal buoyancy convection in a system with two superposed fluids confined in a prismatic cavity, *Journal of Fluid Dynamics and Materials Processing*, Vol. 2(2), 2006, pp. 95-106, S. Punjabi, K. Muralidhar and P.K. Panigrahi.
513. Role of internal radiation during Czochralski growth of YAG and Nd:YAG crystals, *International Journal of Thermal Sciences*, Vol. 45(2), 2006, pp. 151-167, J. Banerjee and K. Muralidhar.

514. Experimental study of convection in a model Czochralski crucible using liquid crystal thermography, *Journal of Visualization*, Vol. 9(1), 2006, pp. 111-119, J. Banerjee, R. Bharadwaj, and K. Muralidhar.
515. Simulation of transport processes during Czochralski growth of YAG crystals, *Journal of Crystal Growth*, Vol. 286(2), 2006, pp. 350-364, J. Banerjee, and K. Muralidhar.
516. Assessing experimental and numerical data using sensitivity functions, *Journal of Institution of Engineers (India)*, Vol.87, 2006, pp. 54-61, Chanpreet Singh , R.G. Tathgir and K. Muralidhar.
517. An Active Vibration Control Strategy for a Flexible Link Using Distributed Ionic Polymer Metal Composites, *Smart Materials and Structures*, Vol.16, 2007, pp. 617-625. D. Bandopadhyaya, B. Bhattacharya, A. Dutta.
518. Path planning for a statically stable biped robot using PRM and Reinforcement learning, *Journal of Intelligent and Robotic Systems*, Vol. 47, 2006, pp. 197-214. P. Kulkarni, D. Goswami, P. Guha and A. Dutta.
519. Grasping and manipulation of deformable objects based on internal force requirements, *International Journal of Advanced Robotic Systems*, Vol.3, No.2, 2006, pp. 107-114. S. Garg and A. Dutta.
520. Combustion and Smoke Emission Studies on a Hydrogen Fuel Supplemented DI Diesel Engine, SAE Paper No 2007-01-0055, SAE Fuels and Emissions Conference, Capetown, January 23-25, 2007, B.P.Pundir and Rajeev Kumar.
521. Three-Dimensional Numerical Study of Flow and Heat Transfer from a Cube Placed in a Uniform Flow, *Int. J. Heat Fluid Flow*, Vol. 27, 2006, pp. 80-94, A.K. Saha.
522. Blade Tip Leakage Flow and Heat Transfer With Pressure Side Winglet, *Int. J. Rotating Machinery*, Art No. 17079, 2006, A.K. Saha, Sumanta Acharya, R. Bunker, and C. Prakash.
523. Effect of Reynolds Number, Density Ratio and Rotation Number on Turbulent Flow and Heat Transfer in Coolant Passages of Different Aspect Ratios, Accepted for publication in *ASME J. Heat Transfer*, 2006, A.K. Saha, Sumanta Acharya.
524. Computations of Turbulent Flow and Heat Transfer through a Three-Dimensional Non-Axisymmetric Blade Passage, Accepted for publication in *ASME Journal of Turbomachinery*, A.K. Saha, Sumanta Acharya.
525. Direct Simulation of Film Boiling Including Electrohydrodynamic Forces, *Physics of Fluids*, Vol. 19, 2007, 012106, S.W.J. Welch and G. Biswas.
526. A Note on the Flow and Heat Transfer Enhancement in a Channel with Built-in Winglet Pair, *Int. J. Heat and Fluid Flow* , Vol. 28, 2007, pp. 299-305, S.R. Hiravennavar, E.G. Tulapurkara, G. Biswas.

527. Numerical Prediction of Fluid Flow and Heat Transfer in the Target System of an Axisymmetric Accelerator Driven Subcritical System, *Journal of Heat Transfer (ASME)*, Vol. 129, 2007, pp. 582-588, K. Arul Prakash, G. Biswas and B.V. Rathish Kumar.
528. A Numerical Study of the Target System of an ADSS with Different Flow Guides, *PRAMANA*, Vol. 68, 2007, pp. 365-376, K Arul Prakash, B V Rathish Kumar and G Biswas.
529. Electrohydrodynamic Instability of a Confined Viscoelastic Liquid Film, *Journal of Non-Newtonian Fluid Mechanics*, Vol. 143, 2007, pp. 120-130, G. Tomar, V. Shankar, A. Sharma and G. Biswas.
530. Thermal Hydraulics of the Spallation Target Module of an Accelerator Driven Sub-critical System: A Numerical Study, *International Journal of Heat and Mass Transfer*, Vol. 49, 2006, pp. 4633-4652, K. Arul Prakash, G. Biswas and B.V. Rathish Kumar.
531. Numerical Simulation of the Target System of an ADSS, *International Journal of Computational Fluid Dynamics*, Vol. 20, 2006, pp. 513-520, K. Arul Prakash, G. Biswas and B.V. Rathish Kumar.
532. Effect of Blockage on Drag and Heat Transfer from a Single Sphere and an In-line Array of Three Spheres, *Powder Technology*, Vol. 168, 2006, pp. 74-83, A. Maheshwari, R.P. Chhabra and G. Biswas.
533. Instability and Dynamics of Thin Viscoelastic Liquid Films, *European Physical Journal*, Vol. 20, 2006, pp. 185-200, G. Tomar, V. Shankar, S.K. Shukla, A. Sharma, G. Biswas.
534. A SUPG - Finite Element Study of an ADSS, *Finite Element in Analysis and Design*, Vol. 42, 2006, pp. 1123-1136, K. Arul Prakash, S. De, B.V. Rathish Kumar and G. Biswas.
535. Large-Eddy Simulation of High Reynolds Number Turbulent Flow Past a Square Cylinder, *Journal of Engineering Mechanics (ASCE)*, Vol. 132, 2006, pp. 327-335, Y. Srinivas, G. Biswas, A.S. Parihar and R. Ranjan.
536. Numerical Study of Natural Convection in the Spallation Target Module of an Accelerator Driven Sub-Critical System, 33rd National and 3rd International Conference on Fluid Mechanics and Fluid Power, paper number 1414, IIT Bombay, December 7-9, 2006, K. Arul Prakash, B. V. Rathish Kumar and G. Biswas.
537. A Comparison of VOF and CLSVOF Method for Predicting Surface Tension Dominated Two-Phase Flows, 33rd National and 3rd International Conference on Fluid Mechanics and Fluid Power, paper number 1417, IIT Bombay, December 7-9, 2006, G. Tomar, G. Biswas and A. Sharma.
538. Large Eddy Simulation of Flow Past Square Cylinder with Fine Grid, 33rd National and 3rd International Conference on Fluid Mechanics and Fluid Power,

- paper number 1308, IIT Bombay, December 7-9, 2006, M. K. Radle, E.G. Tulapurkara and G. Biswas.
539. Steady-state response of an infinite beam on elastic foundation subjected to a moving load, *Journal of Sound and Vibration*, 291, 2006, pp. 1148 - 1169, A.K. Mallik, S. Chandra and A.K. Singh.
 540. Control of friction driven oscillation by time-delayed state feedback, *Journal of Sound and Vibration*, 297, 2006, pp. 578 -594, J. Das and A. K. Mallik.
 541. Curious consequences of simple sequences, *Resonance*, January 12, 2007, (1), pp. 23 - 37, A.K. Mallik.
 542. Experimental investigation of the response of a harmonically excited hard Duffing oscillator, *Pramana, Journal of Physics*, 68 (1), 2007, pp. 99 - 104, N. S. Patil and A. K. Mallik.
 543. Virtual Hybrid-FDM System to Enhance Surface Finish, *Virtual and Physical Prototyping, International Journal*, V1, 2006, 101-116, P.M. Pandey, N.V. Reddy and S.G. Dhande.
 544. Constrained shape modification of B-spline curves, *Computer Aided Design and Applications, International Journal of CAD and CAM*, V3, 2006, 437-463, M. Tuli, N.V. Reddy, and A. Saxena.
 545. Laser and Plasma Technology in Manufacturing: The Indian Scenario, *Global Alliance for Research and Education in Laser Aided Manufacturing*, July 17-18, 2006, National Academy of Science, Washington, USA, Country Paper (Invited Talk - Prof. A. Ghosh). 3, 2006, I. Manna, M. Tuli, N.V. Reddy, A.Ghosh and S. Joshi.
 546. An Integrated Fixture Planning System for Minimum Tolerances, *Ist International and 22nd AIMTDR Conference*, IIT Roorkee, December 2006, pp. 259-264, S. Bansal, S. Srivastava, N.V. Reddy, Kripashanker.
 547. Automated Modular Fixture Planning - An Integrated Approach, *National Conference on Design, Dynamics and Manufacturing (NCDDM-2007) (Keynote Paper)*, March 16-17, 2007, SLIET, Longowal, 2007, N.V. Reddy.
 548. Erosion Wear behaviour of TiCN-Ni cermets containing secondary carbide (WC/NbC/TaC), *Journal of American Ceramic Society*, 2006, B.V. Manoj Kumar, Bikramjit Basu, S.Kang and J.Ramkumar.
 549. Experimental Characterisation of thin Sandwich Panel of Polymer Composite, *Journal of Advanced Composite letters*, 2006, Prasanth Kumar, Axay Kumar, Kamal.K.Kar and J.Ramkumar.
 550. Electro-discharge machining performance of TiCN-based cermets, *Int. J. Refractory and Hard Materials*. (in Press, 2006), B. V. Manoj Kumar, J. Ramkumar, B. Basu and S. Kang.

551. Crater Wear Mechanism of TiCN-Ni-WC Cermets during Dry Machining, *International Journal of Refractory Metals and Hard Materials* (in press, 2006). B.V. Manoj Kumar, J. Ramkumar and Bikramjit Basu.
552. Analysis of Rubber Pressure Molding Technique to Fabricate Fiber Reinforced Plastic components, *Polymer Composites*, (in press) 2006, K.K. Kar, S.D. Sharma, P.Kumar, J.Ramkumar, R.K. Appaji and K.R.N. Reddy.
553. ABS-Nanocomposites filled with nanosized Alumina, *Polymer Composites*, (in press), 2006, K.K. Kar, S. Srivastava, A. Rahman, J. Ramkumar and S.K. Nayak.
554. A Mathematical Model for Determination of Limiting Blank Holding Force and Cavity Pressure in Hydromechanical Deep Drawing, *Proc. IMechE Part - B Journal of Manufacture*, (in press) 2006, K.S. Deep, N.V. Reddy, A. Agrawal, J. Ramkumar.
555. Pressure Distribution Analysis of Fiber Reinforced Plastic Components made by Rubber Pressure Moulding Technique, *Journal of Applied Polymer Science*, (in press), 2007, K.K.Kar, S.D. Sharma, P.Kumar, J.Ramkumar, R.K. Appaji and K.R.N.Reddy.
556. Harmonic function based domain mapping method for general domains, *WSEAS Transaction on Computers*, Vol. 5 No. 10, 2495–2502, 2006, Hari K. Voruganti, Bhaskar Dasgupta and Guenter Hommel.
557. Closed Form Studies of a New Hybrid Damping Technique Using Active Magnetostrictive Composite and Hard Coated Damping Alloys, *Smart Materials and Structures*, Vol. 16, No.3, 2007, pp. 626-633, B. Bhattacharya, S. Ahalwat, and B.R. Vidyashankar.
558. Structural Health Monitoring of Ribbon Reinforced Composite Laminate using Piezoelectric Sensory Layer *International Journal of COMADEM*, special issue on Condition and Health Monitoring, 2007, V. Jaiswal, K. Anand and B. Bhattacharya.
559. An active vibration control strategy for a flexible link using distributed ionic polymer metal composites *Smart Materials and Structures*, Vol. 16, No.3, 2007, pp. 617-625, D. Bandopadhyaya, B. Bhattacharya, and A. Dutta.
560. A Finite Element Based investigation on obtaining high material damping over a large frequency range in Viscoelastic Composites. *Journal of Sound and Vibration*, Volume 303, Issues 3-5, 20 June 2007, Pages 753-766. R.K. Patel, B. Bhattacharya, and S. Basu.
561. Microstructural and Mechanical Properties of Silica - PEPEG Polymer Composite Xerogels. *Acta Materialia*, 54(19), 2006, 5231-5240, M.M. Kulkarni, R. Bandyopadhyaya, B.Bhattacharya, and A. Sharma.
562. *Chaos, Nonlinearity, Complexity: A Unified Perspective*, Springer-Verlag, Berlin Heidelberg, 2006, pp 270-352, A. Sengupta.

563. Experimental and Numerical Investigations of Jet Impingement Cooling of Piston of Heavy-Duty Diesel Engine for Controlling the Non-Tail Pipe Emissions, SAE paper no 2007-01-0763, Accepted for publication by SAE International in SAE Special Publication. Avinash Kumar Agarwal, Sandeep Kumar Goyal.
564. Experimental Wear Characterization of Titanium Based PVD Coatings for Automotive Applications Using Exhaust Gas Recirculation, Surface and Coating Technology, Volume 201, Issue 13, March 2007, Pages 6182-6188. Avinash Kumar Agarwal, Ashish Garg, D K Srivastava, and M K Shukla.
565. Bio Fuels (Alcohols and Biodiesel) Applications as fuels for Internal Combustion Engines, Progress in Energy and Combustion Science, Volume 33, Issue 3, June 2007, Pages 233-271. (ISSN # 0360-1285), Avinash Kumar Agarwal.
566. Effect of Liner Surface Properties on Wear, Friction and Surface Morphology in Non-Firing Engine Simulator, Materials and Design, Volume 28, Issue 5, 2007, Pages 1632-1640. (ISSN # 0261-3069), Dhananjay Kumar Shrivastava, Avinash Kumar Agarwal.
567. Development of High Strength Hydroxyapatite by Solid-State-Sintering Process, Ceramic International, Volume 33, Issue 3, April 2007, Pages 419-426. (ISSN # 0272-8842). Sumit Pramanik, Avinash Kumar Agarwal, K. N. Rai, Ashish Garg.
568. Particulate Emission Characterization of a Biodiesel Vs Diesel Fuelled Compression Ignition Transport Engine: A Comparative Study, Atmospheric Environment, Volume 40, Issue 29, September 2006, Pages 5586-5595. (ISSN # 1352-2310). Dipankar Dwivedi, Avinash Kumar Agarwal, Mukesh Sharma.
569. Experimental Investigation of the Effect of EGR on Wear Performance of a Compression Ignition Engine, Journal of Engineering for Gas Turbine and Power, Vol. 128, No. 4, pp. 921-927, October 2006. (ISSN # 0742-4795), Shrawan Kumar Singh, Dhananjay Kumar Srivastava, Avinash Kumar Agarwal, Mukesh Sharma.
570. Experimental Investigation of Control of NO_x Emissions in Biodiesel Fuelled Compression Ignition Engine, Renewable Energy, Volume 31, Issue 14, November 2006, Pages 2356-2369. (ISSN # 0960-1481). Deepak Agarwal, Shailendra Sinha, Avinash Kumar Agarwal.
571. Numerical Investigations of Piston Cooling Using Oil Jet in Heavy Duty Diesel Engines, Journal of Engine Research, Volume 7, Number 5, 2006, pp. 411-421. (ISSN # 1468 0874), Mani Bijoy Verghese, Avinash Kumar Agarwal.
572. On the problem of an axial semi-elliptical crack in a hollow ductile cylinder, International Journal of Fracture, 140, 2006, 269-275, with R.K. Sharma, S.K. Shrivastava, P.M. Dixit and S. Basu.

573. On simulation of magnetic abrasive finishing process for plane surfaces using FEM, *International Journal of Machining and Machinability of Materials*, 1(2), 2006, 133-165, G.B. Madhab, V.K. Jain and P.M. Dixit.
574. Modeling and simulation of surface roughness in magnetic abrasive finishing using non-uniform surface profiles, *Materials and Manufacturing Processes*, 22(2), 2007, 256-270, V.K. Jain, S.C. Jayswal and P.M. Dixit.
575. Development of a rubber pressure molding technique for fiber reinforced plastics, *KGK, Kautschuk Gummi Kunststoffe*, 59(4), 2006, pp. 169-173, Kamal K. Kar, S. D. Sharma, S.K. Behera, and P. Kumar.
576. Surface roughness of fiber reinforced plastic laminates fabricated using rubber pressure molding technique, *Polymer Composites* 27(5), 2006, pp. 504-512, S.D. Sharma, Kamal K. Kar, and P. Kumar
577. Development of rubber pressure moulding technique using polybutadiene rubber to fabricate fibre reinforced plastic components based on glass fibre and epoxy resin, *Current Science*, 90(11), 2006, pp. 1492-1499, Kamal K. Kar, S.D. Sharma, S.K. Behera, and P. Kumar
578. Development of rubber pressure molding technique using butyl rubber to fabricate fiber reinforced plastic components based on glass fiber and epoxy resin, *Journal of Applied Polymer Science*, 101(2), 2006, pp. 1095-1102, Kamal K. Kar, S.D. Sharma, S.K. Behera, and P. Kumar.
579. Development of rubber pressure molding technique using silicone rubber to fabricate fiber reinforced plastic components based on glass fiber and epoxy resin, *Journal of Elastomers and Plastics*, 39(2), 2007, pp. 117-132, Kamal K. Kar, S.D. Sharma, S.K. Behera, and P. Kumar.
580. Development of rubber pressure moulding technique using butyl rubber to fabricate fiber reinforced plastic components based on glass fiber and polyester resin, *Journal of Reinforced Plastics and Composites*, 26(3), 2007, pp. 269-283, Kamal K. Kar, S.D. Sharma, T.K. Sah and P. Kumar.
581. Development of a cutting tool condition monitoring system for high speed turning operation by vibration and strain analysis, *Int. J. Adv. Manuf. Technology*, (Published online: DOI 10.1007/s00170-007-0986-z), H.Chelladurai,, V.K.Jain and N.S.Vyas.
582. Modeling and simulation of Surface Roughness in Magnetic Abrasive Finishing Using Non-Uniform Surface Profiles, *Int. J. of Materials and Manufacturing Processes*, Vol.22, 256-270, 2007. (Published on-line DOI: 10.1080/10426910601134096), V.K.Jain, S.C.Jayswal and P.M.Dixit.
583. Successful strategies for AMT adoption in India: Analyzing Important variables via Factor and Discriminant Analysis, *Journal of Advances in Management Research*, Volume 4 (1), January 2007, pp.17-28, L.S.Thakur, V.K.Jain and Reena Gupta.

584. Prediction of surface roughness during abrasive flow machining, *International J. of Advanced Manufacturing Technology*, Volume 31(1&2), 2006, pp.258-267. V.K.Gorana, V.K.Jain and G.K.Lal.
585. Nanofinishing of Silicon nitride workpieces using Magnetorheological abrasive flow finishing, *Int. J. Nanomanufacturing*, Vol.1(2), 2006, pp. 17 - 25. Sunil Jha and Vijay Kumar Jain
586. On simulation of magnetic abrasive finishing process for plane surfaces using FEM, *Int. J. of Machining and Machinability of Materials*, Vol.1(2), 2006, pp. 133-165. G.B.Madhab, V.K.Jain, and P.M.Dixit.
587. Nanofinishing of Silicon Nitride (Si₃N₄) workpieces using Magnetorheological abrasive flow finishing, *Int. J. of Nanomanufacturing* (accepted for publication), Sunil Jha, and V.K.Jain.
588. Optimization of process parameters of mechanical type advanced machining processes using genetic algorithms, *Int. J. of Machine Tools and Manufacture* (published online: DOI:10.1016/j.ijmactool.2006.o8.001), Neelesh K.Jain. V.K.Jain, and Kalyanmoy Deb.
589. Technology Adoption in India: A future perspective with analysis of important variables, *J. Adv. Manuf. Systems*, Vol.5, No.2 (2006) 179-207. Lakshman S.Thakur and Vijay K.Jain.
590. A Finite Element based investigation on obtaining high material damping over a large frequency range in viscoelastic composites, *J. Sound Vibration*, v303, 753-766., 2007, R.K. Patel, B. Bhattacharya and S.Basu.
591. Numerical simulation of mechanical behaviour of asphalt mix, *Construction and Building Materials*, doi:10.1016/j.conbuildmat.2007.03.010 (appeared online, yet to appear in print), 2007, R. Bandopadhyaya, A. Das, and S. Basu.
592. A molecular dynamics study on the strength and ductility of high T_g polymers, *Modell. Simul. Mater. Sc. Engng.*, v14, 563, 2006, A.K. Negi and S. Basu.
593. On the problem of an axial semi elliptical crack in a hollow ductile cylinder, *Int. J Fracture*, v140, 269, 2006, R. Sharma, S.K. Shrivastava, P.M. Dixit and S. Basu.
594. A molecular dynamics study of the failure modes of a glassy polymer confined between rigid walls, *Modell. Simul. Mater. Sc. Engng*, v14, 1071, 2006, U. Kulmi and S. Basu.
595. Joining similar and dissimilar materials with GFRP, *International Journal of Adhesion & Adhesive* 27, 2007, pp 68-76, Ritesh Kumar Singh P.Kumar and Rajeev Kumar.
596. Experimental Study on Thin Sandwich Panel, *IE (I) Journal - MC*, V 87, Oct. 2006, A. Kumar P.Kumar and P.S. Chandel.
597. Development of a rubber pressure molding technique for fiber reinforced plastics, *KGK, Kautschuk Gummi Kunststoffe*; 59(4), 2006, pp. 169-173, Kamal. K. Kar, S. D. Sharma, S.K. Behera and P. Kumar.

598. Surface roughness of fiber reinforced plastic laminates fabricated using rubber pressure molding technique, *Polymer Composites* 27(5), 2006, pp. 504-512, S.D. Sharma, Kamal K. Kar, and P. Kumar.
599. Development of rubber pressure moulding technique using polybutadiene rubber to fabricate fibre reinforced plastic components based on glass fibre and epoxy resin, *Current Science*, 90(11), 2006, pp. 1492-1499, Kamal K. Kar, S.D. Sharma, S.K. Behera, and P. Kumar.
600. Development of rubber pressure molding technique using butyl rubber to fabricate fiber reinforced plastic components based on glass fiber and epoxy resin, *Journal of Applied Polymer Science*, 101(2), 2006, pp. 1095-1102, Kamal K. Kar, S.D. Sharma, S.K. Behera, and P. Kumar.
601. Development of rubber pressure molding technique using silicone rubber to fabricate fiber reinforced plastic components based on glass fiber and epoxy resin, *Journal of Elastomers and Plastics*, 39(2), 2007, pp. 117-132, Kamal K. Kar, S.D. Sharma, S.K. Behera, and P. Kumar.
602. Development of rubber pressure molding technique using butyl rubber to fabricate fiber reinforced plastic components based on glass fiber and polyester resin, *J. of Reinforced Plastics and Composites*, 26(3), 2007, pp. 269-283, Kamal K. Kar, S.D. Sharma, T.K. Sah and P. Kumar.
603. The C-C Bond Forming Reaction Through Aldol-Type Addition Mediated by $[\text{Ru}_2(\text{CO})_4]^{2+}$ Core, *Organometallics*, 2007, 26, 0000, Sanjib K. Patra and Jitendra K Bera.
604. Is Copper(I) Hard or Soft? A Density Functional Study of Mixed Ligand Complexes, *New J. Chem.* 2007, 31, 385, Sivasankar, C; Sadhukhan, N; Bera, J. K; Samuelson, A. G.
605. Axial Interaction of the $[\text{Ru}_2(\text{CO})_4]^{2+}$ Core with $\text{C}(\text{sp}^2)\text{-H}$ Bond: Route to Cyclometalated Compounds Involving Metal-Metal Bonded Diruthenium Unit, *Organometallics*, 2006, 25, 6054, Sanjib K. Patra and Jitendra K Bera
606. Ligand Assisted Homolytic Cleavage of the Ru-Ru Single Bond in $[\text{Ru}_2(\text{CO})_4]^{2+}$ Core and the Chemical Consequence, *J. Organomet. Chem.* 2006, 691, 4779, Sanjib K. Patra, Moumita Majumdar, Jitendra K. Bera
607. Syntheses and Reactivity Studies of Solvated Diruthenium Acetonitrile Complexes, *Dalton. Trans.* 2006, 4011, Jitendra K. Bera, Eric J. Schelter, Sanjib K. Patra, John Bacsá, Kim R. Dunbar
608. Novel Heterobimetallic Metallamacrocycles Based on the 1,1'- Bis(1,8-naphthyrid-2-yl)ferrocene (FcNP_2) Ligand: Structural Characterization of the Complexes $[\{\text{M}(\text{FcNP}_2)\}_2]^{2+}$ ($\text{M} = \text{Cu}^{\text{I}}, \text{Ag}^{\text{I}}$) and $\{\text{MCl}_2(\text{FcNP}_2)\}_4$ ($\text{M} = \text{Zn}^{\text{II}}, \text{Co}^{\text{II}}$), *Organometallics*, 2006, 25, 2914, Sadhukhan, N., Patra, S. K., Sana, K. and Bera J. K.

609. Effects of Axial Coordination on the Ru-Ru Single Bond in Diruthenium Paddlewheel Complexes, *Inorg Chem.* 2006, 45, 4007, Patra, S. K., Sadhukhan, N. and Bera, J. K.
610. Coordination Polymers Built from Cu(II) and Pyrazine-2,3,5,6-tetracarboxylate or Pyridine-2,4,6-tricarboxylate: Structural and Magnetic Studies, *Inorg. Chim. Acta.* (2006), 359, 468, S. K. Ghosh, M. S. El Fallah, J. Ribas P. K. Bharadwaj
611. Supramolecularly Assembled Pentameric and Octameric Water Clusters Stabilized by a Mixed Complex of Ni (II) , *Inorg. Chim. Acta.* (2006), 359, 1685. , S. K. Ghosh, P. K. Bharadwaj
612. Light Induced DNA Scission by a Luminescent Mixed-Ligand Uranyl Complex, *Inorg. Chim. Acta.* (2006), 359, 548, S. Das, C. Madhavaiah, S. Verma, P. K. Bharadwaj
613. Self-assembled Octameric and Tetrameric Water Clusters Gather Luminescent Zinc(II) Complexes Around to Hydrogen-Bonded Framework Structures and Associated Fluorescence Modulation, *Crystal Growth and Design.* (2006), 6, 187, S. Das, P. K. Bharadwaj
614. Metal-Organic Framework Structures of Cd(II) Built with Two Closely Related Podands that are Further Stabilized by Water Clusters, *Crystal Growth and Design.* (2006), 6, 433, S. Neogi, P. K. Bharadwaj
615. Zinc(II) and Copper(I) Mediated Large Two-Photon Absorption Cross Sections in a bis-Cinnamaldiminato Schiff Base, *J. Am. Chem. Soc.* (2006), 128, 402, S. Das, A. Nag, D. Goswami, P. K. Bharadwaj
616. Self-Assembly of a Luminescent Zinc(II) Complex: A Supramolecular Host-Guest Fluorescence Signaling System for Selective Nitrobenzene Inclusion, *Inorg. Chem.* (2006), 45, 5257, S Das and P. K. Bharadwaj
617. Decameric Water clusters Shaped as Two Parallel Cyclic Pentamers with Staggered Conformation Stabilize Supramolecularly Bonded Infinite Chains of H_2PO_4^- Ions Forming Large Voids Occupied by Cryptand Molecules, *Eur. J. Inorg. Chem.* (2006), 1341, S. K. Ghosh, P. K. Bharadwaj
618. Alteration in the Binding Property of Laterally Non-symmetric Aza Cryptand Toward Cu(II), Ag(I) and Tl(I) Ions upon Derivatization with Methylnitile Group, *Eur. J. Inorg. Chem.* (2006) 1771, D. Ray, P. K. Bharadwaj
619. Design and Synthesis of 1,10-Phenanthroline Based Zn(II) Complexes Bearing, 1D Push-Pull NLO-phores for Tunable Quadratic Nonlinear Optical Properties, *J. Organomet. Chem.* (2006) 691, 2512, S. Das, A. Jana, V. Ramanathan, T. Chakraborty, S. Ghosh, P. K. Das, P. K. Bharadwaj
620. Fluorescence Signaling Systems with a Cryptand Receptor Incorporating Electron- Withdrawing Groups: Metal Ion Specificity and Solvent Dependence, *J. Photochem. Photobiol. A.* (2006), 181, 215, B. P. Bag, P. Mukhopadhyay, P. K. Bharadwaj,

621. Self-assembly of Alternating Left- and Right-Handed Infinite Cd(II) Helices into a 2D Open Framework Structure, *J. Mol. Struct.* (2006), 796, 119 (Special Issue), S. K. Ghosh, P. K. Bharadwaj,
622. Exocyclic coordination and translocation of metal ions in laterally non-symmetric aza cryptands, *Current Science* 91 (2006) 1166, B. Bag, P. Mukhopadhyay and P. K. Bharadwaj
623. A Multi-receptor Fluorescence Signaling System Exhibiting Enhancement Selectively in Presence of Na(I) and Tl(I) Ions, *J. Photochem. Photobiol. A* 185 (2007) 231, K. K. Sadhu, B. P. Bag and P. K. Bharadwaj,
624. Molecular Ice with Hybrid Water-Bromide Network Around a Cryptand with a Bromide Ion Included in the Cavity Forming a Host Within a Host Like Structure, *Eur. J. Inorg. Chem.* (2007) 1229, M. C. Das, P. K. Bharadwaj,
625. Dynamics of halide ion-water hydrogen bonds in aqueous solutions: Dependence on ion size and temperature, *J. Phys. Chem. B*, 124, 84507 (2006), S. Chowdhuri and A. Chandra
626. ``Solute size effects on the solvation structure and diffusion of ions in liquid methanol under normal and cold conditions , *J. Chem. Phys.* vol. 124, p. 84507 (2006), S. Chowdhuri and A. Chandra
627. ``Hydrogen bond and residence dynamics of ion-water and water-water pairs in supercritical aqueous ionic solutions: Dependence on ion size and density, *J. Chem. Phys.* 125, 234502 (2006), Bhabani S. Mallik and A. Chandra
628. ``Protonic defects in large water clusters at finite temperature, *Proc. Ind. Natl. Sci. Acad.* (2007), A. Bankura and A. Chandra.
629. Influence of Aromatic Substituents on the Supramolecular Architectures of Monoorganooxotin drums, *Cryst. Growth Des.* 2006, 6, 267-273, V. Chandrasekhar, K. Gopal, S. Nagendran, A. Steiner, S. Zacchini
630. Multi-Site Coordination Ligands Assembled on Organostannoxane Supports, *J. Organomet. Chem.* 2006, 691, 1681-1692, V. Chandrasekhar, P. Thilagar, P. Sasikumar
631. Influence of O-H---O=P Hydrogen-bonding on the Supramolecular Architectures of Phosphorus based Hydrazones: Alternate Right- and Left-handed Helical Chains in the Crystal Structure of $C_6H_5P(O)[N(CH_3)N=CHC_6H_4-p-OH]_2$, *Cryst. Growth Des.* 2006, 6, 910-914, V. Chandrasekhar, R. Azhakar, J. F. Bickley, A. Steiner
632. Assembly of Lipophilic Tetranuclear (Cu_4 and Zn_4) Molecular, Metallophosphonates from 2,4,6-Triisopropylphenylphosponic acid and Pyrazole Ligands, *Inorg. Chem.* 2006, 45, 3344-3351, V. Chandrasekhar, P. Sasikumar, R. Boomishankar, G. Anantharaman.
633. Di- and Trinuclear Complexes Derived from Hexakis (2- pyridyloxy) cyclotriphosphazene. Unusual P-O Bond Cleavage in the Formation of

- [[{(LCuCl)₂(Co(NO₃))Cl] (L = N₃P₃(OC₅H₄N)₅(O)), *Inorg. Chem.* 2006, 45, 3510-3518, V. Chandrasekhar, R. Murugesha Pandian, R. Azhakar
634. Cyclocarbophosphazene Containing Tetrameric Assemblies Formed by the Mediation of P-O-P and P-O-Cu linkages, *J. Am. Chem. Soc.* 2006, 128, 6802-03, V. Chandrasekhar, R. Azhakar, V. Krishnan, A. Athimoolam, B. Murugesha Pandian
635. Inorganic-Cored Photoactive Assemblies: Synthesis, Structure, and Photochemical Investigations on Stannoxane-Supported Multifluorene Compounds, *Chem. Eur. J.* 2006, 12, 8847-51, V. Chandrasekhar, P. Thilagar, A. Steiner, J. F. Bickley
636. 36- and 42-Membered cyclophosphazene-containing macrocycles, *Tetrahedron Letters* 2006, 47, 8365-68, V. Chandrasekhar, G. T. S. Andavan, R. Azhakar and B. Murugesha Pandian
637. Synthesis, Structure and Reactivity of Hydrated and Dehydrated Organotin Cations, *Eur. J. Inorg. Chem.* 2006, 4129-36, V. Chandrasekhar, R. Boomishankar, K. Gopal, P. Sasikumar, Puja Singh, A. Steiner, and S. Zacchini
638. Stannoxanes and Phosphonates: New Approaches in Organometallic and Transition Metal Assemblies, *J. Chem. Sci.* 2006, 118, 455-462, V. Chandrasekhar, K. Gopal, L. Nagarajan, P. Sasikumar, P. Thilagar
639. Total synthesis of (±)-pentenomycin, *Tetrahedron Lett.* 2006, 47, 5251-5253, F. A. Khan, Ch. Nageswara Rao
640. An efficient synthesis of diquinane-based bis- α -lactones, *Tetrahedron Lett.* 2006, 47, 7567-7570, F. A. Khan, Ch. Nageswara Rao
641. Benzannulated Cyclooctanol Derivatives by Samarium Diodide Induced Intramolecular Carbonyl-Alkene Coupling - Scope, Limitations, Stereoselectivity, *J. Org. Chem.* 2006, 4419-4428, H.-U. Reissig, F. A. Khan, R. Czerwonka, C. U. Dinesh, A. L. Shaikh, R. Zimmer.
642. Synthesis of Trichlorophenol Derivatives, *Synth. Commun.* 2006, 36, 3749-3760, F. A. Khan, Sumit Choudhury
643. Synthesis of tribromobenzofuran and tribromobenzopyran derivatives, from methyl 2-allyl-4,5,6-tribromo-3-hydroxybenzoate, *Tetrahedron Lett.* 2007, 48, 85-88, F. A. Khan, Laxminarayana Soma
644. Synthesis of a novel, bowl-like bis α -lactone, *Tetrahedron Lett.* 2007, 48, 207-209, F. A. Khan, Vineet Dwivedi, Bhimsen Rout
645. Synthesis of Highly Functionalized α -Lactone-Fused Cyclopentanoids Synthesis, 2007, 1054-1060, F. A. Khan, Krishnakumar K. S., Ch. Sudheer
646. Effect of partial substitution of Cr on electrocatalytic properties of CoFe₂O₄ towards O₂-evolution in alkaline medium, *Int. J Hydrogen Energy*, 31 (2006) 701-707, R. N. Singh, N. K. Singh, J. P. Singh, G. Balaji and N. S. Gajbhiye

647. Swift heavy ions irradiation studies on some ferrite nanoparticles, Nucl. Instrum. Meth. Phys. Res. B: Beam Inter. Mater.-Atoms 244 (2006) 27-30, B. Parvatheeswara Rao, K. H. Rao, P. S. V. Subba Rao, A. Mahesh Kumar, Y. L. N. Murthy, K. Asokan, V. V. Siva Kumar, Ravi Kumar, N. S. Gajbhiye, O. F. Caltun.
648. Thermal, Structural and Electrical Studies of Nanostructured PZT Synthesized by Low Temperature Technique , Thermans, pp 284-286 (2006), N. S. Gajbhiye, G. Wilde, P. K. Pandey, Lyci George and Abhishek Kumar
649. Synthesis and Structural investigation of ϵ -Fe_{3-x}Ni_xN (0.0 ≤ x ≤ 0.8) Nanoparticles, Prog. Cryst. Growth and Charact. Mater., 52 (2006) 132-141, N. S. Gajbhiye and Sayan Bhattacharyya
650. Mössbauer Spectroscopic Studies of Self-assembled Monodispersed FePt Nanoparticles, Nat. Acad. Sci. Lett. (India), 29, 2006, pp. 287-297, N. S. Gajbhiye and Sayan Bhattacharyya
651. Low Temperature Synthesis, Crystal Structure and Thermal Stability Studies of Nanocrystalline VN Particles , Mater. Res. Bull. Mat. Res. Bull. 41, 1612 (2006), R. S. Ningthoujam and N. S. Gajbhiye
652. Swift heavy ions irradiation studies on some ferrite nanoparticles , O. F. Caltun; Technovation, 26(2) 27-30 (2006), B. Parvatheeswara Rao, K. H. Rao, P. S. V. Subba Rao, A. Mahesh Kumar, Y. L. N. Murthy, K. Asokan, V. V. Siva Kumar, Ravi Kumar, N. S. Gajbhiye.
653. Dielectric Properties of Nanostructured PZT prepared by Chemical Routes, Defence Science Journal, 57(1) 61-68 (2007) , N.S. Gajbhiye, P. K Pandey, Lyci George and Abhishek Kumar
654. Structural, magnetic and electron transport studies on nanocrystalline layered manganite La_{1.2}Ba_{1.8}Mn₂O₇ system, J. Nanosci. Nanotech. 7, 1-5 (2007), N. Sudhakar, R. S. Ningthoujam, N. S. Gajbhiye, and K. P. Rajeev
655. Inorg. Chem. 2006, 45, 3344, V. Chandrasekhar, P. Sasikumar, R. Boomishankar, G. Anantharaman, Organometallics, 2007, 26, 1089, G. Anantharaman, and K. Elango
656. A convenient synthetic route to 2-aryl-N-tosylazetidines and their ZnX₂ (X = I, OTf) mediated regioselective nucleophilic ring opening reactions: synthesis of γ -iodoamines and tetrahydropyrimidines, Tetrahedron Letters, 47, 2006, 5393-5397, Manas K. Ghorai, Kalpataru Das, Amit Kumar and Animesh Das
657. Copper(II) triflate promoted cycloaddition of α -alkyl or aryl substituted N-tosylaziridines with nitriles: a highly efficient synthesis of substituted imidazolines, Tetrahedron Letters, 2006, 47, 5399-5403, Manas K. Ghorai, Koena Ghosh and Kalpataru Das
658. A convenient synthetic route to enantiopure N-tosylazetidines from α -amino acids, Tetrahedron Lett. 2007, 48, 2471-2475, Manas K. Ghorai, Kalpataru Das and Amit Kumar

659. Dependence of adiabatic population transfer on pulse profile, *Pramana – Journal of Physics*, 66(6) 999-1015 (2006), S. Dasgupta, T. Kushawaha, D. Goswami
660. Structure property correlations in alcohols through two-photon absorption cross-section measurements, *Chemical Physics Letters*, 430(4-6), 420–423 (2006), Amit Nag, Sherdeep Singh and Debabrata Goswami
661. Scalability in Ensemble Quantum Computing with Phase Modulated Laser Pulses, *Quantum Information, Computation and Communication* (ISBN:81-8424-064-3), Allied Publishers, New Delhi, 2006, pp 99-110, Debabrata Goswami.
662. Adiabatic Quantum Computation: Coherent Control Back Action, *Quantum Computation Back Action 2006*, AIP Proceedings 864, Refereed Volume edited by D. Goswami, AIP Press, New York (2006) pp273-294, D. Goswami
663. Ultrafast Pulse Shaping Developments for Quantum Computation, *Current Topics in Atomic, Molecular and Optical Physics*, World Scientific Publishing Co. Pte Ltd. Singapore (2007) 133-142, S.K. Karthick Kumar and Debabrata Goswami
664. 22π Smaragdyrin Molecular Conjugates with Aromatic Phenylacetylenes and Ferrocenes; Syntheses, Electrochemical and Photonic Properties, *Journal of The American Chemical Society* 128(50) 16083-16091 (2006), R. Misra, R. Kumar, T. K. Chandrashekar, C. H. Suresh, A. Nag and D. Goswami.
665. Hindered rotation leading to nonequivalence in cobaloximes, *Organometallic* 26 (2006) 3305-3307, Debaprasad Mandal, and B. D. Gupta.
666. Cobaloxime with pyrazine and their bimetallic complexes, *Eur. J. Inorg. Chem*, (2006) 4086-4095, Debaprasad Mandal, and B.D. Gupta.
667. Hindered rotation leading to nonequivalence in 2-substituted benzyl cobaloximes: Structure-property relationship, *Organometallic* 27 (2007) 658-670, Debaprasad Mandal, and B. D. Gupta.
668. The interaction between axial and equatorial ligands in cobaloximes: NMR changes, *Tet. Lett* 48 (2007) 2377-2379, Debaprasad Mandal, Preeti Chadha, Moitree Laskar, Mouchumi Bhuyan, B. D. Gupta
669. On attractive interaction of a colloid pair of like charge at infinite dilution, *The Journal of Chemical Physics* 126, 044908, 2007, Raghu Nath Behera and Pinaki Gupta-Bhaya
670. Fiber optic sensing of liquid refractive index; *Sensors and Actuators B* 123 (2007) 594–605, Argha Banerjee, Sayak Mukherjee, Rishi Kumar Verma, Biman Jana, Tapan Kumar Khan, Mrinmoy Chakroborty, Rahul Das, Sandip Biswas, Ashutosh Saxena, Vandana Singh, Rakesh Mohan Hallen, Ram Swarup Rajput, Paramhans Tewari, Satyendra Kumar, Vishal Saxena, Anjan Kumar Ghosh, Joseph John, Pinaki Gupta-Bhaya;

671. Photochromism of Arylchromenes: Remarkable Modification of Absorption Properties and Lifetimes of o-Quinonoid Intermediates, *Org. Lett.* 2007, 9, 919, Moorthy, J. N.; Venkatakrishnan, P.; Samanta, S.; Krishna Kumar,
672. Oxidative Cleavage of Vicinal Diols: IBX Can Do What Dess-Martin Periodinane Can!, *Org. Biomol. Chem.* 2007, 05, 767., Moorthy, J. N.; Singhal, N.; Senapati, K.
673. Photochemistry of Dicarbonyl Compounds: Influence of Steric and Electronic Factors in the Cyclization and Diels-Alder Trapping Reactions of Photoenols *Arkivoc* (Invited article), 2007, viii, 1-17, Moorthy, J. N.; Samanta, S.
674. Facile Synthesis, Fluorescence, and Photochromism of Novel Helical Pyrones and Chromenes, *Org. Lett.* 2006, 08, 4891, Moorthy, J. N.; Venkatakrishnan, P.; Sengupta, S.; Baidya, M.
675. Diastereomeric Discrimination in the Lifetimes of Norrish Type II Triplet 1,4-Biradicals and Stereo-Controlled Partitioning of their Reactivity (Yang Cyclization vs Type II Fragmentation), *Chem. Eur. J.* 2006, 12, 8744, Moorthy, J. N.; Koner, A. L.; Samanta, S.; Singhal, N.; Nau, W. M.; Weiss, R. G.
676. Cis→trans and trans→cis isomerizations of styrylcoumarins in the solid state. Importance of the location of free volume in crystal lattices, *Photochem. Photobiol. Sci.* 2006, 05, 903, Moorthy, J. N.; Venkatakrishnan, P.; Savitha, G.; Weiss, R. G.
677. π -Phenyl Quenching of Triplet-Excited Ketones: How Critical is the Geometry for Deactivation?, *J. Org. Chem.* 2006, 71, 4453, Samanta, S.; Misra, B. K.; Pace, T. C. S.; Sathyamurthy, N.; Bohne, C.; Moorthy J. N.
678. Anion-Driven Self-Assembly of Tetrapyridyl Ligand with a Twist, *J. Mol. Struct.* 2006, 796, 216, Moorthy, J. N.; Natarajan, R.; Savitha, G.; Suchopar, A.; Richards, R. M.
679. Phenolate-and Acetate-Bridged (both μ -1,1 and μ -1,3 mode) Face-Shared Trioctahedral Linear Ni^{II}_3 , $\text{Ni}^{\text{II}}_2\text{M}^{\text{II}}$ (M=Mn,Co) Complexes: Ferro- and Antiferromagnetic Coupling, *Inorg. Chem.* 2007, under revision. A. K. Sharma, F. Lloret, and R. N. Mukherjee
680. Synthesis, Structure and Properties of Monomeric Fe(II), Co(II), and Ni(II) Complexes of Neutral N-(aryl)-2-pyridinecarboxamides, *Inorg. Chim. Acta* 2006, 359, 4565-4573. W. Jacob and R. N. Mukherjee
681. Coordination versatility of 1,3-bis[3-(2-pyridyl)pyrazol-1-yl]propane: Co(II) and Ni(II) complexes, *Inorg. Chim. Acta* 2006, 359, 4053-4062, V. Mishra and R. N. Mukherjee.
682. A new tyrosinase model with 1,3-bis[(2 dimethylaminoethyl)iminomethyl]benzene: binuclear copper(I) and phenoxo-/hydroxo-bridged dicopper(II) complexes, *Inorg. Chim. Acta* 2006, 359, 4019-4026, S. Mandal and R. N. Mukherjee.

683. Half-sandwich η^6 -benzene Ru(II) complexes of pyridylpyrazole and pyridylimidazole ligands: synthesis, spectra, and structure, *J. Organomet. Chem.* 2006, 691, 3545-3555, H. Mishra and R. N. Mukherjee.
684. Reaction with dioxygen of a Cu(I) complex of 1-benzyl-[3-(2-pyridyl)]pyrazole triggers ethyl acetate hydrolysis: acetato-/pyrazolato-, dihydroxo- and diacetato- bridged Cu(II) complexes, *Dalton Trans* 2006, 1611-1621 (Appeared as Cover Page Article: Issue #13), J. Mukherjee and R. N. Mukherjee.
685. Palladium catalyzed atom-efficient cross-coupling reactions of triarylbi-muths with aryl bromides, *Tetrahedron Letters*, Volume 48, 2007, Pages 2707-2711, Maddali L.N. Rao, Debasis Banerjee and Deepak N. Jadhav
686. Microwave-mediated solvent free Rap-Stoermer reaction for efficient synthesis of benzofurans, *Tetrahedron Letters*, Volume 48, 2007, Pages 431-434, Maddali L.N. Rao, Dheeraj K. Awasthi and Debasis Banerjee
687. An atom-efficient palladium-catalyzed cross-coupling reaction of triarylbi-muths with acid chlorides: synthesis of diaryl and alkyl aryl ketones, *Tetrahedron Letters*, Volume 47, 2006, Pages 6975-6978, Maddali L.N. Rao, Varadhachari Venkatesh and Deepak N. Jadhav
688. Metal catalyst-free direct α -iodination of ketones with molecular iodine, *Tetrahedron Letters*, Volume 47, 2006, Pages 6883-6886, Maddali L.N. Rao and Deepak N. Jadhav
689. A Pt^{III}₂Si₂ Four-Membered Cycle and a Dinuclear Platinum Complex Bridged by Cyclodisiloxane Ring, *Organometallics* 2006, 25, 3796-3798, Shigeru Shimada, Yong-Hua Li, Maddali L. N. Rao, Masato Tanaka
690. Dioxygen Reactivity of Meso-hydroxylated Hemes: Intermediates in Heme Degradation Process Catalyzed by Heme-oxygenase, *J. Chem. Sci.* 2006, 118, 463, S. P. Rath
691. Electron Distribution in Iron Octaethyloxophlorin Complexes. Importance of the Fe(III) Oxophlorin Trianion Form in the Bis-pyridine and Bis-imidazole Complexes, *Inorg. Chem.* 2006, 45, 6083, S. P. Rath, M. M. Olmstead, A. L. Balch
692. An efficient and eco-friendly protocol to synthesize calix[4]pyrroles, *Tetrahedron Letters* 2006, 47, 5851-5854, Soumen Dey, Kuntal Pal and Sabyasachi Sarkar
693. Chemistry of [Et₄N][MoIV(SPh)(PPh₃)(mnt)₂] as an Analogue of Dissimilatory Nitrate Reductase with Its Inactivation on Substitution of Thiolate by Chloride, *J. Am. Chem. Soc.* (2006), 128, 4196, Amit Majumdar, Kuntal Pal, and Sabyasachi Sarkar
694. Blue shift in X-H stretching frequency of molecules due to confinement, *J. Phys. Chem. A* 110, 2-4(2006), O. Shameema, C. N. Ramachandran and N. Sathyamurthy

695. Isotopic branching in (He, HD⁺) collisions, *J. Phys. Chem. A* 110, 389-395(2006) , A. K. Tewari, A. N. Panda and N. Sathyamurthy
696. Ground and excited states of the monomer and dimer of certain carboxylic acids, *J. Phys. Chem. A* 110, 2709-(2006), U. Lourderaj and N. Sathyamurthy
697. Hydrogen bonding without borders: an atoms-in-molecules perspective, *J. Phys. Chem. A* 110, 3349-3351(2006), R. Parthasarathi, V. Subramanian and N. Sathyamurthy
698. Structure and stability of salicylic acid-water complexes and the effect of molecular hydration on the spectral properties of salicylic acid, *J. Phys. Chem. A* 110, 5960-5964(2006), A. K. Tewari and N. Sathyamurthy
699. Hydrogen peroxide clusters: The role of open book motif in cage and helical structures, *J. Phys. Chem. A* 110, 6294-6300(2006), M. Elango, R. Parthasarathi, V. Subramanian, C. N. Ramachandran and N. Sathyamurthy
700. Stacking interaction in pyrazine dimer, *J. Theoretical and Computational Chemistry*, 5, 609-619 (2006), B. K. Mishra and N. Sathyamurthy
701. Beta-phenyl quenching of triplet-excited ketones: How critical is the geometry for deactivation?, *J. Org. Chem.* 71(2006)4453 - 4459, S. Samanta, B. K. Mishra, T. C. S. Pace, N. Sathyamurthy, C. Bohne and J. N. Moorthy
702. 101. Effect of reagent rotation on isotopic branching in (He, HD⁺) collisions, *J. Phys. Chem. A* 110, 6294-6300(2006), A. K. Tiwari and N. Sathyamurthy
703. Ab initio quantum chemical investigation of the ground and excited states of salicylic acid dimer, *J. Phys. Chem. A* 110, 12662-12669(2006), Shruti Maheshwary, U. Lourderaj and N. Sathyamurthy
704. Rotational excitation in (H⁻, H₂) collisions: a quantum mechanical study, *J. Phys. B: At. Mol. Opt. Phys.* 39(2006)4123-4130, K. Giri and N. Sathyamurthy
705. Influence of reagent rotation on (H⁻, D₂) and (D⁻, H₂) collisions: A quantum mechanical study, *J. Phys. Chem. A* 110(2006)13843-13849, K. Giri and N. Sathyamurthy
706. Introducing a twist in carbon nanotubes, *Current Science*, 91(2006)1503-1505, C. N. Ramachandran and N. Sathyamurthy
707. Solvation of H₃O⁺ by phenol: Hydrogen bonding vs. π complexation, *J. Phys. Chem. A* 111, 2-5(2007), R. Parthasarathi, V. Subramanian, N. Sathyamurthy and J. Leszczynski
708. Enantioselective One-Pot Three-Component Synthesis of Propargylamines *Org. Lett.* 2006, 8, 2405, A. Bisai and Vinod K. Singh
709. Highly Enantioselective Direct Aldol Reaction Catalyzed by Organic Molecules, *Org. Lett.* 2006, 8, 4097, M. Raj, V. Maya, S. Ginoira, Vinod K. Singh
710. Unprecedented Approach towards 2-Substituted Cyclobutanones, *Org. Lett.* 2006, 8, 4335, S. Baktharaman, S. Selvakumar, and Vinod K. Singh

711. Asymmetric Synthesis of (+)-Cardiobutanolide, *Tetrahedron* 2006, 62, 11240, A.Garg, R..P. Singh, and Vinod K. Singh
712. Studies on Enantioselective Allylic oxidation of Olefins using Peresters Catalyzed by Cu(I)-complexes of Chiral pybox Ligands, *Org. Biomol. Chem.* 2006, 3, 4370, S.K. Ginoira and Vinod K. Singh
713. Aminolysis of N-Tosylaziridines: An Approach to Asymmetric Synthesis of Symmetrical and Unsymmetrical Chiral Sulfonamide Ligands, *Arkivoc* 2007, V, 20-27; Invited article in honor of Prof. L. Tietze, A.Bisai, B.A. Bhanu Prasad, Vinod K. Singh
714. Enantioselective Diethylzinc Addition to Aldehydes Catalyzed by Ti(IV) Complex of Unsymmetrical Chiral bis(sulfonamide Ligands of trans-Cyclohexane 1,2-Diamine, *Tetrahedron* 2007, 63, 598, A. Bisai, P.K. Singh, and Vinod K. Singh
715. Enantioselective Friedel-Crafts alkylation of indoles with nitroalkenes catalyzed, by a bis(oxazoline)-Cu(II) complex *Tetrahedron Lett.* 2007, 48, 1127, P.K. Singh, A. Bisai, and Vinod K. Singh
716. An Efficient Approach to 2-Substituted N-Tosylpiperdines: Asymmetric Synthesis of 2-(2-Hydroxysubstituted)piperidine Alkaloids, *Tetrahedron Lett.* 2007, 48, 1907, A. Bisai and Vinod K. Singh
717. Highly Enantioselective Water-Compatible Organocatalyst for Michael Reaction of Ketones to Nitro Olefins, *Org. Lett.* 2007, 9, 1117, Vishnumaya and Vinod K. Singh
718. Studies on the Reaction of Aziridines with Nitriles and Carbonyls: Synthesis of Imidazolines and Oxazolines, *J. Org. Chem.* 2007, 72, 2133, S. Gandhi, A. Bisai, B.A. Bhanu Prasad, and Vinod K. Singh
719. Intramolecular Vibrational Energy Redistribution as State Space Diffusion: Classical Quantum Correspondence, *Journal of Chemical Physics (Communication)*, 125, 2006, 141101, Aravindan Semparithi and Srihari Keshavamurthy
720. Conversion of glycals to 1-azido-2-iodosugars using N-iodosuccinimide/ NaN_3 (or KI/Oxone®) reagent systems: Application in the synthesis of methyl N-acetyl- α -D-lividosaminide *Synthesis* 2007, 294, Shikha Rani, Girish K. Rawal, K. P. Madhusudanan and Yashwant D. Vankar
721. Synthesis of chiral non-proteinogenic 4,5-dihydroxy tetrahydropyran derived α -amino acids from D-Mannitol; *Tetrahedron Lett.* 2006, 47, 9035, Anita Brar and Yashwant D. Vankar
722. Nafion-H mediated selective deprotection of terminal isopropylidene acetals and trityl ethers. Application in the synthesis of a substituted piperidone; *Tetrahedron Lett.* 2006, 47, 9117, Shikha Rani, Girish K. Rawal, Amit K. Thakur and Yashwant D. Vankar

723. Hybrid sugars as glycosidase inhibitors en-route to 2-deoxy 2-amino C-glycosyl amino acids; *Tetrahedron Lett.* 2006, 47, 8667, K. Jayakanthan and Yashwant D. Vankar
724. A one pot selective deprotective acetylation of benzyl ethers and OTBDMS ethers using the $\text{BF}_3 \cdot \text{Et}_2\text{O} \cdot \text{NaI} \cdot \text{Ac}_2\text{O}$ reagent system; *Tetrahedron Lett.* 2006, 47, 5207, Anita Brar and Yashwant D. Vankar
725. Biomimetic synthesis and ultrastructural characterization of a zerovalent gold-hydroxyapatite composite, *Bioorg. Med. Chem. Lett.* 2006, 16, 363-366, Gupta, Y., Mathur, G.N., Verma, S.
726. Light induced DNA scission by a luminescent mixed-ligand uranyl complex, *Inorg. Chim. Acta* 2006, 359, 548-552, Das, S., Madhavaiah, C., Verma, S., Bharadwaj, P.K.*
727. A luminescent silver-adenine metallamacrocyclic quartet, *J. Am. Chem. Soc.* 2006, 128, 400-401, Purohit, C.S., and Verma, S.
728. Ordered self-assembly of a glycine-rich linear and cyclic hexapeptide: Contrasting ultrastructural morphologies of fiber growth, *Supramol. Chem.* 2006, 18, 405-414, Joshi, K.B., and Verma, S.
729. Ordering in a glycine-rich peptide conjugate: Microscopic, fluorescence and metalation studies, *Biopolymers* 2006, 83, 289-296, Krishna Prasad, K., and Verma, S.*
730. Phosphodiester modification by zinc metalated adenine polymer with carboxyl pendants, *Bioorg. Med. Chem. Lett.* 2006, 16, 5364-5367, Gupta, Y., Mathur, G.N., Parvez, M., and Verma, S.
731. Meso-meso-linked corrole dimers with modified cores: Synthesis, characterization, and properties, *Chem. Eur. J.* 2007, 13, 105-114, Sankar, J., Rath, H., Prabhuraja, V., Gokulnath, S., Chandrashekar, T.K.,* Purohit, C.S., and Verma, S.*
732. Kinetic characterization of a bioinspired heterogeneously active macromolecular catalyst for phenol oxidation and coupling reactions, *Appl. Catal. A: Gen.*, 2007, 316, 100-106, Purohit, C.S., Parvez, M., and Verma, S.*
733. Bioinspired design of nano-cages by self-assembling triskelion peptide elements, *Angew. Chem.* 2007, 46, 2002-2004, Ghosh, S.; Reches, M.; Gazit, E.*; Verma, S.*
734. Metalated peptide fibers derived from a natural metal-binding peptide motif, *Tetrahedron Lett.* 2007, 48, 2189-2192, Ghosh, S., and Verma, S.*
735. Patterned Deposition of a Mixed-Coordination Adenine-Silver Helicate, Containing a π -Stacked Metallacycle, on a Graphite Surface, *J. Am. Chem. Soc.* 2007, 129, 3488-3489, Purohit, C.S., and Verma, S.*
736. Phased Fiber Growth in a Peptide Conjugate: Aggregation, and Disaggregation Studies, *J. Phys. Chem. B* 2007, DOI: 10.1021/jp066546a, Ghosh, S., and Verma, S.*

737. Self-assembly and potassium ion triggered disruption peptide-based soft Structures, Chem. Commun. 2007, DOI: 10.1039/b701665d, Ghosh, S., Singh, S. K.; Verma, S.*
738. Distinguishing the early and late transition states and exploring the validity of $\square \rightarrow \square^* \#$, $\square \# \rightarrow \square^*$ and $\square \rightarrow \square^*_{C=O}$ concepts in diastereoselection from NBO analysis, J. Org. Chem. 71, 2006, 4178-4182, Veejendra K. Yadav, Archana Gupta, Rengarajan Balamurugan, Vardhineedi Sriramurthy and Naganabonia Vijaya Kumar
739. 4,5-Didehydro-7-silyloxymethyl-2-oxepanone and formal total syntheses of Hagens gland lactones and trans-kumausynes, Tetrahedron Lett. 47, 2006, 7615-7618, Divya Agrawal, Vardhineedi Sriramurthy and Veejendra K. Yadav
740. Lewis acid-catalyzed formation of indene derivatives via tandem reactions of arylacetylenes with the cations generated from silylmethyl-substituted cyclopropyl carbinols, J. Chem. Soc. Chem. Commun. 2007, DOI:10.1039/B700246G, Veejendra K. Yadav, Naganabonia Vijay Kumar and Masoos Parvez
741. On the comparison of fisher information of the Weibull and GE distributions, Journal of the Statistical Planning and Inference, Vol.136(9),2006, 3130-314, Kundu, D., Gupta, R.D.
742. A convenient way of generating normal random variables using generalized exponential distribution, Journal of Modern Applied Statistical Methods, Vol.5(1), 2006, 300-306, Kundu, D., Gupta, R.D., Manglick, A.
743. Analyzing non-stationary signals using generalized multiple fundamental frequency model, Journal of the Statistical Planning and Inference, Vol. 136,2006, 3871-3903, Kundu,D., Nandi, S.
744. Analysis of Type-II progressively hybrid censored data, Computational Statistics and Data Analysis, Vol.50(10), 2006, 2509-2528, Kundu, D., Joarder, A.
745. Point and interval estimations for the two-parameter Birnbaum Saunders distribution, Computational Statistics and Data Analysis, Vol.50(11), 2006, 3222-3242, Kundu, D., Ng, H.K.T., Balakrishnan, N.
746. Analysis of Type-II progressively hybrid censored competing , risks data, Journal of Modern Applied Statistical Methods, Vol.5(1), 2006,186-204, Kundu, D., Joarder A.
747. Analysis of incomplete data in presence of competing risks among several groups, IEEE Transactions on Reliability, Vol.55(2), 2006, 262-269, Kundu, D., Sarhan, A.
748. Estimation of $P(Y < X)$ for Weibull distribution, IEEE Transactions of Reliability, Vol.55(2), 2006,270-280, Kundu, D., Gupta, R.D.

749. Fast and efficient algorithm for estimating the frequencies of sinusoidal signals, *Sankhya*, Vol. 68(2), 2006, 283-306, Kundu, D., Nandi, S.
750. Point and interval estimation for a simple step-stress model with type-II censoring, *Journal of Quality Technology*, Vol.39(1),2007, 35-47, Kundu, D., Balakrishnan, N., Ng, H.K.T.
751. Analysis of hybrid life-tests in presence of competing risks, *Metrika*, Vol.65,2007, 159-170, Kundu, D., Gupta,R.D.
752. Burr type X distribution: revised, *Journal of Probability and Statistical Sciences*, Vol.4(2), 2006, 179-193, Kundu, D., Raqab, M.Z.
753. A convenient way of generating gamma random variables, *Computational Statistics and Data Analysis*, Vol.51, 2007, 2796-2802, Kundu, D., Gupta, R.D.
754. Amphicheiral knots with every even crossing number, *Journal of Knot Theory and its Ramifications*, Vol.16 (1), 2007, 43-44, Dar. A.
755. Spectral element methods for parabolic problems, *Jour. Comp. Appl. Math.*, Available online 12 June 2006, Dutt, P., Biswas, P. Ghorai, S.
756. Nonconforming h-p spectral element methods for elliptic problem, *Proc. Indian Acad. Sci(Math.Sci.)*, 2007, Dutt, P., Kishore, K.N., Upadhyaya, C.S.
757. Generalized cubic spline fractal interpolation, *SIAM J. Numerical Anal.*44(2), 2006, 655-676, Kapoor, G.P., Chand, A.K.B.
758. Smoothness analysis of coalescence hidden variable fractal interpolation functions, *International J. Nonlinear Science*, 3(1), 2006, 1-12, Kapoor, G.P., Chand, A.K.B.
759. Dynamics of a family of transcendental meromorphic functions having rational schwarzian derivative, *J. Math. Anal. Appl.*, 326(2), 2007, 1356-1369, Kapoor, G.P., Sajid, M.
760. Continuity properties for the subdifferentials and a-subdifferential of a convex function and its conjugate, *Journal of Convex Analysis* 1, 2007, 479-514, Shunmugaraj, P.
761. Algorithms for the optimum communication spanning tree problem, *J. Annals of Operations Research*, Vol. 143, 2006, 203-209, Sharma, P.
762. Rough belief change. *Transactions of Rough Sets V*, LNCS 4100,2006, 25-38, Banerjee, M.
763. Logic for rough truth. *Fundamental Informaticae*, 71(2-3), 2006,139-151, Banerjee, M.
764. Propositional logics from rough set theory, *Transactions of rough sets vi*, LNCS 4374, 2007, 1-25, Banerjee, M & Khan, M. A

765. Maximally differential graded ideals in positive characteristic. *Comm. Algebra* 34 (10), 2006, 3505–3510, Maloo, A. K.
766. Maximally differential ideals in regular local rings. *Proc. Indian Acad. Sci. Math. Sci.* 116 (3), 2006, 267--270. Maloo, A. K.
767. Mathematical modeling and analysis of the depletion of dissolved oxygen in water bodies. *Nonlinear Analysis: Real World Applications*, Vol.7(5), 2006, 980-996, Chandra, P., Misra, A.K., Shukla, J.B.
768. On a result for finite Markov chains *International Journal of Mathematical Education in Science and Technology*, Vol. 37(4) 2006, 4498-502, Kulathinal, S., Ghosh, L.
769. A q-analogue of the distance matrix of a tree, *Linear Algebra and its Applications*, Vol. 416, Issues 2-3, 2006, 799-81, Lal, A.K., Bapat, R.B., Pati, S.
770. Study of dynamic relationships between financial and real sectors of economies with wavelets, *Applied Mathematics & Computation*, Vol. 188(1), 2007, 83 -95, Mitra, S., Nandi, B., Mitra, A.
771. A study of nonlocal history-valued retarded differential equations using analytic semigroups, *Nonlinear Dyn. Syst. Theory* 6, No.1, 2006, 63-75, Bahuguna, D., Muslim, M.
772. Existence of solutions to Sobolev-type partial neutral differential equations. *J. Appl. Math. Stoch. Anal.* 2006, Bahuguna, D., Agarwal, S.
773. Approximations of solutions to neutral functional differential equations with Non local history conditions. *J. Math. Anal. Appl.* 317, No.2, 2006, 583-602, Bahuguna, D., Agarwal, S.
774. B-Spline method for solving general singularly perturbed value problems. Using fitted mesh. *Computing letters*, Vol.2,4,2006,193-203, Kadalbajoo, M.K., Kumar, V.
775. Fitted mesh B-Spline collocation method for solving singularly perturbed. Reaction-diffusion problems. *J. of Concrete and Applicable Mathematics*, Vol.4,3,2006, 349-365, Kadalbajoo, M.K., Kumar, V.
776. Epsilon uniform convergent fitted methods for the numerical solution of the problems arising from singularly perturbed general differential-difference equations. *Applied Mathematics and Computation*, Vol. 182, 2006, 119-139, Kadalbajoo, M.K., Patidar, K.C., Sharma, K.K.
777. Epsilon uniform convergent fitted mesh finite differenced methods for general singular perturbation problems. *Applied Mathematics and Computation*, Vol. 179, 2006, 248-266, Kadalbajoo, M.K., Patidar, K.C.

778. A parameter uniform difference scheme for singularly perturbed parabolic problems in one space dimension. *Applied Mathematics and Computation*, Vol.183, 2006, 42-60, Kadalbajoo, M.K., Awasthi, A.
779. A numerical method based on Crank-Nicolson scheme for Burgers equation. *Applied Mathematics and Computation*, Vol.182, 2006, 130-144, Kadalbajoo, M.K., Awasthi, A.
780. Applied Mathematics and Computation, Vol.182, 2006, 130-144, Kadalbajoo, M.K., Awasthi, A.
781. A high resolution total variation diminishing scheme for hyperbolic Conservation law and related problems. *Applied Mathematics and Computation*, Vol.175, 2006, 1556-1573, Kadalbajoo, M.K., Kumar, R.
782. Parameter uniform fitted mesh method for singularly perturbed delay differential Equations with layer behaviour. *Electronic Transactions of Numerical Analysis*, Vol.23, 2006, 181-201, Kadalbajoo, M.K., Sharma, K.K.
783. An exponentially fitted finite difference scheme for solving boundary value problems for Singularly perturbed differential difference equations small shifts of mixed type with layer Behaviour.. *J. Comp. Anal. Applic.*, Vol.8, 2006, 151-171, Kadalbajoo, M.K., Sharma, K.K.
784. Numerical methods on Shishkin mesh for singularly perturbed delay differential equations with a grid adaptation strategy. *Applied Mathematics & Computation*, doi:10.1016/j.amc.2006.11.046, Ramesh, V.P., Kadalbajoo, M.K.
785. Hybrid method for numerical solution of singularly perturbed delay differential equations. *Applied Mathematics and Computation*, doi:10.1016/j.amc.2006.08.159, Ramesh, V.P., Kadalbajoo, M.K.
786. Modelling exchange rates using wavelet decomposed genetic neural networks, *Statistical Methodology*, Vol.3(2), 2006, 103-124, Mitra, S. Mitra, A.
787. A wavelet filtering based analysis of macroeconomic indicators: The Indian evidence, *Applied Mathematics & Computation*, Vol.175(2), 2006, 1055-1079, Mitra, S.
788. Estimation of linear regression models with missingness of observations on both the explanatory and study variables, *Quality Technology and Quality Management*, Vol.3, No.2, 2006, 179-189, Shalabh., Toutenburg, H., Srivastava, V.K.
789. Use of prior information in the form of interval constraints for improved estimation of linear regression models with some missing responses, *Journal of Statistical planning and inference*, Vol. 136, No.8, 2006, 2430-2455, Shalabh, Toutenburg, H., Heumann, C.
790. Consequence of departure from normality on the properties of calibration estimators, *Journal of Statistical Planning and Inference*, Vol.136, No.12, 2006, 4385-4396, Shalabh., Toutenburg, H.

791. Feature extraction and classification using statistical networks. *International Journal of Pattern Recognition and Artificial Intelligence*, 2007, Ghosh, A.K.
792. On nearest neighbor classification using adaptive choice of K. *Journal of Computational and Graphical Statistics*, 2007, Ghosh, A.K.
793. On error-rate estimation in nonparametric classification. *Statistica Sinica*, 2007, Ghosh, A.K., Hall, P.
794. A quantitative approach to estimate the economic success of entrepreneurs in India. *Journal of the Canadian Council for Small Business and Entrepreneurship*, 2007, Ghosh, A.K., Chattopadhyay, R.
795. On some inadmissibility results for the scale parameter of selected gamma population. *Journal of Statistical Planning and Inference*, 136, 2340-2351, 2006, Misra, N., Meulen van der, E.C., Branden, V.K.
796. On estimating the scale parameter of the selected gamma population under the scale invariant squared error loss function. *Journal of Computational and Applied Mathematics*, 86(1), 268-282, 2006, Misra, N., Meulen van der, E.C., Branden, V.K.
797. Selecting the least dispersive population. *Journal of Applied Statistical Science*, 15(1), 111-126, 2007, Misra, N., Kumar, N.
798. Assessment of white matter damage in Subacute Sclerosing Panencephalitis using quantitative diffusion tensor MR imaging, *American Journal of Neuroradiology*, 27:1712-1716, 2006, Rathore, R.K.S., Trivedi, R., Gupta, R.K., Agarwal, A., Hasan, K.M., Gupta, A., Prasad, K.N., Bayu, G., Rathore, D., Narayana, P.A.
799. Revisiting the Lagrange multiplier rule, *Pacific Journal of Optimization*, Vol 2, 2006, 501-519, Dutta, J.
800. Bounded sets of KKT multipliers in vector optimization, *Journal of Global Optimization*, Vol 36, 2006, pp 425-437, J. Dutta & C. S. Lalitha.
801. Optimality conditions in bilevel programming, *Optimization*, Vol 55, 2006, pp 505- 524, S. Dempe, J. Dutta and S. Lohse.
802. Lagrangian conditions for vector Optimization in Banach Spaces, *Mathematical Methods of Operations Research*, Vol 64 2006, 521-540. J. Dutta and C. Tammer.
803. Bilevel programming with convex lower level problems. *Optimization with multivalued mappings*, Springer Optim. Appl. 2, 2006, 51-71, J. Dutta, and S. Dempe.
804. Modelling the spread of bacterial infectious disease with environmental effect in a logistically growing human population, *Non-Linear Analysis: Real World*

- Application, Vol. 7(3), July 2006, pp 341-363, Mini Ghosh, Peeyush Chandra, Prawal Sinha, J. B. Shukla.
805. Thermal hydraulics of the spallation target module of an accelerator driven sub-critical system: A numerical study, *International Journal of Heat and Mass Transfer*, Volume 49, Issues 23-24, November 2006, 4633-4652 K. Arul Prakash, G. Biswas and B.V. Rathish Kumar
806. A SUPG Finite Element study of an ADSS, *Finite Elements in Analysis & Design*, Vol. 42 (13), 2006, pp.1123-1136,. K. Arul Prakash, B. V. Rathish Kumar and G. Biswas.
807. Role of Surface on the Persistent Photoconductivity in Porous silicon born Doped a-Si:H, S. C. Agarwal, N. P. Mandal and Abhishek Kumar, *Mater. Res. Soc. Proc.* 910, A12.1.1-6. (2006).
808. Why Phase-change Materials Work, M. Paesler, S. C. Agarwal, D. A. Baker, G. Lučovský and P. C. Taylor, *Mater. Res. Soc. Proc.* 918, H4.2.1-13 (2006).
809. Influence of Polystyrene Coating on the Photo Degradation of Amorphous Silicon, N. P. Mandal, Abhishek Kumar, S. C. Agarwal, *J. Non-crystalline Solids* 352, 2015-2018. (2006).
810. Improved Stability of Nanocrystalline Porous Silicon after Coating with a Polymer, N. P. Mandal, Ashutosh Sharma, S. C. Agarwal, *J. Appl. Phys.* 100, 024308 (2006).
811. Application of Bond Constraint Theory to the Switchable Optical Memory Material $\text{Ge}_2\text{Sb}_2\text{Te}_5$, D. A. Baker, M. A. Paesler, G. Lučovský, S. C. Agarwal and P. C. Taylor, *Phys. Rev. Letters* 96, 255501-1,3 [letter], (2006).
812. Instabilities in the vortex matter and peak effect phenomenon Shyam Mohan, Jaivardhan Sinha, S. S. Banerjee, Yuri Myasoedov. *Phys. Rev. Lett.* 98, 027003 (2007)
813. Instabilities in the vortex matter and peak effect phenomenon Shyam Mohan, Jaivardhan Sinha, S. S. Banerjee, Yuri Myasoedov. *Virtual Journal of Applications of Superconductivity*, Jan. 15, 2007 issue.
814. Mapping megagauss magnetic fields by high resolution magneto-optical microscopy. Jaivardhan Singh, Shyam Mohan, S. S. Banerjee, Subhendu Kahaly, G. Ravindra Kumar (Submitted)
815. Nan-particles of $\text{La}_{0.9}\text{Ca}_{0.1}\text{MnO}_3$ manganite: Size-induced change of magnetic ground state and interplay between surface and core contribution to its magnetism. E. Rozenberg, S. S. Banerjee, I. Felner, E. Sominski, A. Gedanken, *Journal of Non-Crystalline Solids* 353, 817 (2007)
816. Sheath formation criterion for negatively charged particles, H. Amemiya and S. Bhattacharjee *Journal of Physics D: Applied Physics*, 39, 3773-3776 (2006).

817. Competition of coarsening and shredding of clusters in a driven diffusive lattice gas. *Journal of Statistical Mechanics: Theory and Experiment* (IOP, UK), P06012 (2006), Kunwar, D. Chowdhury, A. Schadschneider and K. Nishinari.
818. Collective effects in intra-cellular molecular motor transport: Coordination, cooperation and competition D. Chowdhury, *Physica A* (Elsevier), Vol.372, 84 (2006).
819. Modelling of self-driven particles: foraging ants and pedestrian, K. Nishinari, K. Sugawar, T. Kazama, A. Schadschneider and D. Chowdhury, *Physica A* (Elsevier), Vol.372 (2006).
820. From aggressive driving to molecular motor traffic A. Kunwar, A. Schadschneider and D. Chowdhury, *Journal of Physics A* (IOP, UK), Vol. 39, 14263 (2006).
821. Natural Nano-Machines1: Alice in a micro-factory, D. Chowdhury, *Resonance* (Indian Academy of Sciences & Springer), Vol. 12(1), 4 (2007)
822. Natural Nano-Machines 2: Discussion on Methods, Materials and Mechanisms, D. Chowdhury, *Resonance* (Indian Academy of Sciences & Springer), Vol. 12(2), 39 (2007)
823. Traffic of interacting ribosomes: effects of single-machine mechano-chemistry on protein synthesis A Basu and D. Chowdhury, *Physical Review E* (APS, USA), Vol. 75, 021902 (2007). Selected for the February 15, 2007, issue of the *Virtual Journal of Biological Physics Research*.
824. Spectroscopic study of the field and pressure induced phases of the Bilayered Ruthenate $\text{Ca}_3\text{Ru}_2\text{O}_7$, *Phys. Rev. B*, 73, 2006, 134407, J. F. Karpus, C.S. Snow, Rajeev Gupta, S. L. Cooper and G. Cao.
825. Electron spin resonance of YbIr_2Si_2 below the Kondo temperature J. Sichelschmidt, J., J. Wykhoff, H.-A. K. Von Nidda, I. I. Fazlshanov, Z. Hossain, C. Krellner, C. Geibel, F. Steglich, *Journal of Physics: Condensed Matter*, Vol. 19, No. 01, 10 Jan. 2007, p.6
826. Quantum phase transition in the heavy-fermion compound YbIr_2Si_2 H. Q. Yuan, M. Nicklas, Z. Hossain, C. Geibel, F. Steglich, *Physical Review B* (Condensed Matter and Materials Physics), Vol. 74, No. 21, 01 Dec. 2006, P. 212403-1-4.
827. Momentum dependence of 4f hybridization in heavy-fermion compounds: angle-resolved photoemission study of YbIr_2Si_2 and YbRh_2Si_2 , S. Danzenbacher, Yu. Kucherenko, D. V. Vyalikh, M. Holder, C. Laubschat, A. N. Yaresko, C. Krellner, Z. Hossain, C. Geibel, X. J. Zhou, W. L. Yang, N. Mannella, Z. Hussain, Z.-X. Shen, M. Shi, L. Patthey, S. L. Molodtsov *Physical*

- Review B. (Condensed Matter and Materials Physics), Vol. 75, No. 4, 15 Jan. 2007, p-45109-1-11
828. A blind estimation of the power spectrum of cmb anisotropy from wmap, Rajib Saha, Pankaj Jain and Tarun Souradeep, *Astrophys. J.* 645, L89-L92 (2006).
829. Evading the astrophysical limits on light pseudoscalars, Pankaj Jain and Subhayan Mandal, *Int. J. Mod. Phys. D15*, 2095-2104 (2006)
830. A re-analysis of the three year WMAP temperature power spectrum and likelihood, Hans K. Eriksen, Greg Huey, R. Saha, F. K. Hansen, J. Dick, A. J. Banday, K. M. Gorski, P. Jain, J. B. Jewell, L. Knox, D. L. Larson, I. J. O Dwyer, T. Souradeep, B. D. Wandelt, *Astrophys. J.* 656, 641-652 (2007)
831. Nirmalya Ghosh, Pradeep Kumar Gupta, Asima Pradhan, S. K. Mazumdar, Anomalous behaviour of depolarization of light in a turbid medium *Physics Letters A*, 354, 236-242 (2006)
832. Sharad Gupta, V. L. N. Sridhar Raja and Asima Pradhan, Simultaneous Extraction of Optical Transport Parameters and Intrinsic Fluorescence of Tissue Mimicking Model Media Using Spatially Resolved Fluorescence Technique *Applied Optics*, Vol. 45, 28 (2006)
833. Dipak Paramanik, Asima Pradhan, Shikha Varma, Nanoscale defect formation on InP (111) surfaces after MeV Sb implantation *J. Appl. Phys.* 99, 014304 (2006)
834. Correlation effect in a band ferromagnet: spin-rotationally symmetric study with self-energy and vertex corrections *Phys. Rev. B* 74, 224437 (2006) Avinash Singh
835. Clustering induced suppression of ferromagnetism in diluted magnets *Phys. Rev. B* 75, 035206 (2007) Avinash Singh
836. Ferromagnetism in the t-t Hubbard model: interplay of lattice, band dispersion, and interaction effects studied within a Goldstone-mode preserving scheme *Phys. Rev. B* 75, 064412 (2007) Sudhakar Pandey and Avinash Singh.
837. Spin dynamics in the diluted ferromagnetic Kondo lattice model Preprint cond-mat/0607633 (2006) (to be published in *J. Phys. : Condens. Matter*) Avinash Singh, Subrat Kumar Das, Anand Sharma and Wolfgang Nolting.
838. Universal Scaling Laws for Large Events in Driven Nonequilibrium Systems, *Europhys. Lett.*, 76, 1050, 2006, M. K. Verma, S. Manna, J. Banerjee, and S Ghosh.
839. Mode-to-mode Energy Transfers and Patterns in Convection, *Pramana*, 67, 1129, 2006, M. K. Verma, K. Kumar, B. Kamble.

840. Energy Transfers in Forced MHD Turbulence, *J. Turbulence*, 7, N51, 2006, D. Carati, O. Debliqy, B. Knaepen, B. Teaca, and M. K. Verma.
841. Self-organized criticality and 1/F Noise in Single-Channel Current of Voltage Dependent Anion Channel, *Europhys. Lett.*, 73, 457, 2006, J. Banerjee, S. Manna, S. Ghosh, M. K. Verma.
842. Field-theoretic Calculation of Helical Turbulence, *Pramana*, 66, 447, 2006, V. Avinash, M. K. Verma, and A. V. Chandra.
843. Energy fluxes and shell-to-shell transfers in three-dimensional decaying magnetohydrodynamic turbulence, *Phys. Plasmas*, 12, 42309, 2005, O. Debliqy, M. K. Verma, and D. Carati.
844. Energy transfers and locality in magnetohydrodynamic turbulence, *Phys. Plasmas*, 12, 82307, 2005, M. K. Verma, A. Ayyer, and A. V. Chandra.
845. Local Shell-to-shell energy transfer via nonlocal interactions in fluid turbulence, *Pramana*, 65, 297, 2005, M. K. Verma, A. Ayyer, O. Debliqy, Shishir Kumar, and A. V. Chandra.
846. Incompressible turbulence as non-local field theory, *Pramana*, 64, 333, 2005, M. K. Verma.
847. Multicolored Coherent Population Trapping in a System Using Phase Modulated Fields, H. Wanare, *Physical review Letters* Vol. 96, Page: 183601 (2006)
848. Structural, Magnetic, and Electron Transport Studies on Nanocrystalline Layered Manganite La_{1.2}Ba_{1.8}Mn₂O₇ System *Sudhakar, N.; Ningthoujam, R.S.; Rajeev, K.P.; Gajbhiye, N.S.; Narayan, J. ***Journal of Nanoscience and Nanotechnology* Volume 7, Number 3, March 2007, pp. 965-969(5)
849. Magnetic properties of NiO nanoparticles Tiwari, S.D. / Rajeev, K.P., *Thin Solid Films*, 505 (1), p.113-117, May 2006.
850. Delay times and detector times for pulses traversing a plasma and negative refractive index media., *Phys. Rev. E* 74, (2006), 036601, Lipsa Nanda, Aakash Basu and S.A. Ramakrishna.
851. Finite checkerboards of dissipative negative refractive index. *Opt. Express*, 14, (2006) 12950, Sangeeta Chakrabarti, S.A. Ramakrishna and S. Guenneau
852. Comment on Negative refraction at optical frequencies in nonmagnetic two component molecular media. *Phys. Rev. Lett.* 98, (2007), 059701, S.A. Ramakrishna
853. Confining light with negative refraction., *Phys. Rev. A* (In Press, 2007), S.A. Ramakrishna, S. Guenneau, S. Enoch, G. Tayeb and B. Gralak.

854. Title: Bulk and surface transitions in asymmetric simple exclusion process: Impact on boundary layers Authors: Sutapa Mukherji and Vivek Mishra Journal Ref: Physical Review E 74, 011116 (2006)
855. Papers in press: Title: Boundary layer analysis for non-equilibrium phase transitions, Author: Sutapa Mukherji Journal Ref: Physica A (2007)
856. Title: Shocks in asymmetric simple exclusion processes of interacting particles, Author: Sutapa Mukherji Journal Ref: Physical Review E (2007)

MSP

857. Synthesis of iron oxide nano-particles under oxidizing environment and their stabilization in aqueous and non-aqueous media, J Magnetism and Magnetic Materials, 308, 2007, 46-55, D. Maity and D.C. Agrawal
858. Dielectric properties of sol-gel derived calcium copper titanate and calcium barium copper titanate thin films, Defence Science Journal, 57, 2007, 55-60, A Dixit, D Maurya , D. P. Singh , D. C. Agrawal and Y. N. Mohapatra
859. Synthesis, photophysical and electroluminescent properties of arylene-vinylenes-co pyrrolenevinylenes derived from divinylaryl bridged bispyrroles, Macromolecules, 40, 2007, 2657-2665, A. K. Biswas, Ashish, A. K. Tripathi, Y.N. Mohapatra, and A. Ajayaghosh
860. Trapping phenomena in intrinsic hydrogenated amorphous silicon like materials studied using current transient spectroscopies Journal of Non-Crystalline Solids, 352, 2006, 1130-1133, V. Tripathi, Y.N. Mohapatra , P. Roca i Cabarrocas
861. Spectroscopic studies of the field and pressure induced phases of the bilayered ruthenate $\text{Ca}_3\text{Ru}_2\text{O}_7$, Phys. Rev B, 73, 2006, 134407, J. F. Karpus, C. S. Snow, R. Gupta, S. L. Cooper and G. Cao
862. On the sol-gel synthesis and thermal, structural and magnetic studies of transition metal (Ni, Co, Mn) doped ZnO, J Physics: Condensed Matter, 18, 2006, 2473-2486, S. Thota, T. Dutta and J. Kumar
863. Magnetic and dielectric behaviours of $\text{Ba}_{0.2}\text{Sr}_{0.8}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3.5}$ Oxide, J. Physics and Chemistry of Solids, 67, 2006, 1687-1691, S. K. Singh and J. Kumar
864. Morphology, surface topography and optical studies of electron beam evaporated MgO thin films, Bull. Mater. Sci., 29, 2006, 513-521, A. Chowdhury and J. Kumar
865. Structural, thermal, dielectric studies on sol-gel derived MgO from a non-alkoxide route, Materials Science and Technology, 22, 2006, 1249-1254, A. Chowdhury and J. Kumar

866. Anodically produced alumina dielectric for organic electronic devices, ECS Transactions - Denver, Volume 2, Dielectric for Nanosystems - II : Materials Science, Processing, Reliability, and Manufacturing, D.Misra and H Iwai (Editors), 2006, p.181-193, V. Budhraja, A. Kumar, J. Kumar and B. Mazhari
867. Dielectric-spectroscopic and a.c. conductivity investigations on copper doped layered $\text{Na}_{1.7}\text{K}_{0.3}\text{Ti}_3\text{O}_7$ ceramics, J Appl. Phys. 100, 2006, 034103 (9 pages), D. Maurya, J. Kumar and Shripal
868. Dielectric-spectroscopic and a.c. conductivity investigations on copper doped layered $\text{Na}_{1.8}\text{K}_{0.2}\text{Ti}_3\text{O}_7$ ceramics, Solid State Communications, 139, 2006, 295-300, D. Maurya, S. Tiwari, J. Kumar and P. Chand
869. Effect of liner surface properties on wear and friction in a non-firing engine simulator, Materials and Design, 28, 2007, 1632-1640, D. K. Srivastava, A K Agarwal and J. Kumar
870. Development of a rubber pressure modeling techniques for fiber reinforced plastics, Kautschuk Gummi Kunststoffe; 59, 2006, 169-173, K. K. Kar, S. D. Sharma, S.K. Behera, and P. Kumar
871. Surface roughness of fiber reinforced plastic laminates fabricated using rubber pressure molding technique, Polymer Composites, 27, 2006, 504-512, S.D. Sharma, K. K. Kar, and P. Kumar
872. Development of rubber pressure moulding technique using butyl rubber to fabricate fiber reinforced plastic components based on glass fiber and polyester resin, J. Reinforced Plastics and Composites, 26, 2007, 269-283, K. K. Kar, S.D. Sharma, T.K. Sah and P. Kumar
873. Development of rubber pressure molding technique using silicone rubber to fabricate fiber reinforced plastic components based on glass fiber and epoxy resin", J. Elastomers and Plastics, 39, 2007, 117-132, K. K. Kar, S.D. Sharma, S.K. Behera, and P. Kumar
874. Development of rubber pressure moulding technique using polybutadiene rubber to fabricate fibre reinforced plastic components based on glass fibre and epoxy resin, Current Science, 90, 2006, 1492-1499, K. K. Kar, S.D. Sharma, S.K. Behera, and P. Kumar
875. Development of rubber pressure molding technique using butyl rubber to fabricate fiber reinforced plastic components based on glass fiber and epoxy resin, J. Applied Polymer Science, 101, 2006, 1095-1102, K. K. Kar, S.D. Sharma, S.K. Behera, and P. Kumar

LTP

881. Citrate-Nitarte route for the Synthesis and Characterization of TAG using Sol-gel Techniques, Sumit Saxena, Archana Asokkumar K and Bansilal, J Sol-Gel Sci Techn, Vol 41, p 245-248, 2007.
882. A Laser Induced Breakdown Spectroscopy for Quality Control in Pharmaceutical Industry, Bansilal, Fang-Yu Yueh and Jagdish P. Singh, J. of Optics, Vol 34, p 194-205, 2006.

CONFERENCE PAPERS

1. Stochastic finite element failure analysis of laminated plates under uniaxial compressive loading, 47th AIAA/ASME/AHS/ASC structure, structural Dynamics and Materials Conference, May 1-4, 2006, Hyatt Regency Newport, Rhode Island, (USA), Amit K.Onkar, D. Yadav* and C. S. Upadhyay.
2. Rotor blade dynamic stall model and its influence on airfoil response, Paper No. AIAA-2006-1866, 47-th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics and Materials Conference, Newport, Rhode Island, USA, May 2006, Laxman, V. and Venkatesan, C..
3. Nonlinear constitutive modelling of hysteresis effects in piezoceramics for application to smart structures, National Conference on Smart Structures and MEMS Systems for Aerospace Applications, DRDO, Hyderabad, Dec. 2006, Sateesh, V.L., Upadhyay, C.S., and Venkatesan. C..
4. Bluff-Body Flow by Control by Aerodynamic Tripping – ASME PVT 2006/ICPVT – 11 Conference on Flow –Induced Vibration during July 23-27, 2006 Vancouver, Canada. T.K. Sengupta & Gaurav Kumar
5. Spatio-temporal receptivity of boundary –layers by Bromwich contour integral method- Presented in International Conf. Boundary and Interior Layers, BAIL-2006. Conf. held at Univ. of Goettingen, Germany July 2006. T.K. Sengupta & A. Kameswara Rao
6. DNS and spatial stability analysis for mixed convection boundary layer over an isothermal vertical flat plate – 33rd National and 3rd Inter. Conf. on Fluid Mechanics and Fluid Power held at IIT Bombay. 7-9 Dec. 2006. K. Venkatasubbaiah & T.K. Sengupta
7. Effects of free-stream turbulence on flows- Modeling and Computing, DREAMS-2007 Conf. organized at GE Bangalore on 12 March, 2007. T.K. Sengupta, D. Das & P. Mahanamurthy
8. Excitation of Shear layer instability in flow past a cylinder at low Reynolds Numbers the Proceedings of the 11th Asian Congress of Fluid Mechanics (ACFM) 22-26 May, Malaysia, 2006, S.Mittal.
9. Shape Optimization for Fluid Flow Problems, the Proceedings of the 11th Asian Congress of Fluid Mechanics (ACFM), 22-26 May Malaysia, 2006, D.N.Srinath and S. Mittal.
10. Vortex Induced Oscillations at Low Reynolds Numbers: Effect of Blockage the Proceedings of the 11th Asian Congress of Fluid Mechanics (ACFM), 22-26 May Malaysia, 2006, T.K.Prasanth, S Behara and S Mittal.
11. Effect of blockage on Vortex Induced Vibrations at Low Reynolds Numbers, in Abstracts of the 7th World Congress on Computational Mechanics (WCCM), Hyatt Regency Century Plaza Hotel, Los Angeles California USA July 16-22, 2006, S. Mittal, T.K. Prasanth and S Behara.

12. Shape Optimization of airfoils at low Reynolds numbers, in Abstracts of the 20th National Convention of Aerospace Engineers, Indian Aerospace_ Present Scenario & Future Trends The Institution of Engineers India Vellayambalam October 29-30, 2006, Arvind Krishna S D.N. Srinath and Sanjay Mittal.
13. Shape Optimization for low Reynolds Number flows the Proceedings of the 14th International Conference on Finite Elements in Flow Problems FEF07 Santa Fe New Mexico USA March 26-28, 2007, D.N. Srinath, and S Mittal.
14. Instabilities in flow past half a cylinder, the Proceedings of the 14th International Conference on Finite Elements in Flow Problems, FEF07 Santa Fe New Mexico USA March 26-28, 2007, B. Kumar, J.J. Kottaram A.K. Singh and S Mittal.
15. Hysteretic behavior of circular cylinder undergoing vortex-induced vibration at low Reynolds the Proceedings of the International Conference on Computational Methods 2007 (ICCM2007) Hiroshima Japan April 4-6 (2007), TK Prasanth and Sanjay Mittal.
16. Improved delta Method for Parameter Estimation from Real Flight Data of an Aircraft using Neural Networks Accepted to 17th IFAC Symposium on Automatic Control in Aerospace, Toulouse, France, June 2007, S. Singh and A.K. Ghosh.
17. Trajectory Modeling of a parafoil in Motion Using Analytically Derived at High Angle of Attack, 19th AIAA Aerodynamic Decelerator Systems Technology Conference Seminar, Virginia, USA, 21-24th May, 2007, N.K. Peyada, Ankur Singhal, A.K. Ghosh.
18. Concurrent approach for aviation infrastructure and manpower development, National Seminar on Aviation Infrastructure in India, Kochi, 18-19 Feb, 2007, NGR Iyengar, A.K. Ghosh, Ankur Singhal.
19. Estimation of Drag Co-efficient from Flight Data of an Artillery Shell and Rocket, Proceedings of International Congress on Computational Mechanics and Simulation (ICCMS-06), IIT Guwahati, 8-10 Dec, 2006, GG Dutta, Ankur Singhal, A.K. Ghosh.
20. Application of Maximum Likelihood Method for Aerodynamic Parameter Estimation from Flight Data of a Typical Parafoil, Proceedings of International Congress on Computational Mechanics and Simulation (ICCMS-06), IIT Guwahati, 8-10 Dec, 2006, Ujjwala Darvemula, Ankur Singhal, A.K. Ghosh.
21. Parameter Estimation From Flight Data Using Maximum Likelihood Method And Neural Network, Proceedings AIAA Paper No.2006-5820, AIAA Atmospheric Flight Mechanics Conference and Exhibit, Keystone, Colorado, 21st - 24th Aug.2006, Sanjay Singh, A.K. Ghosh.
22. Estimation of Drag Coefficient Using Real Radar Tracked Data of an Artillery Shell, Proceedings AIAA Paper No.2006-6149, AIAA Atmospheric Flight

- Mechanics Conference and Exhibit, Keystone, Colorado, 21st - 24th Aug.2006, G.G. Dutta, Ankur singhal, A.K. Ghosh.
23. On Implementation of Trajectory Correction System on a Routinely Used Artillery Rocket, Proceedings AIAA paper No.2006-6012, AIAA Atmospheric Flight Mechanics Conference and Exhibit, Keystone, Colorado, 21st - 24th Aug.2006, S.K. Gupta, S. Saxena, A.K. Ghosh.
 24. Autonomous Maneuvering Entry Guidance with Ground-Track Control, Paper No. AIAA-2007-856, 45th AIAA Aerospace Sciences Meeting and Exhibit, Reno, Nevada, Jan. 8-11, 2007. (Authors: M. Sudhir and Ashish Tewari).
 25. Spray Characterization in Electrostatic Atomization, ICLASS06-098, International Conference on Liquid Atomization and Spray Systems ICALSS-06, Aug.27-Sep.1, 2006, Kyoto, Japan, Srikanth A, Karnawat J. and Kushari A.
 26. Characterization of an Externally Mixed Air-Assisted Atomiser, ICLAss06-265, International Conference on Liquid Atomization and Spray Systems ICALSS-06, Kyoto, Japan, Lal Suresh, Kushari A, Kapoor J.C. and Maji S..
 27. Characterization of Auto-Initiating Solid-Propellant Pulsed Plasma Micro Thruster, AIAA-2006, 4860, 42nd AIAA/ASME/SAE/ASEE, Joint Propulsion Conference, July 9-12, 2006, Sacramento, California, Srikanth A. and Kushari A.
 28. Recovery of pyridine from its dilute concentration of aqueous solution by pervaporation using poly-ether-block-amide membrane, IChE meeting during CHEMCON-2006, December, 2006 in Ankleshwar (Gujrat) Mrinal Kanti Mandal and P. K. Bhattacharya.
 29. ODH of Ethane and Propane over V_2O_5/TiO_2-SiO_2 Catalysts: Effect of Loading on Kinetic Parameters Chemcon-2006, IChE Annual Meeting, Ankleshwar, 2006, D. Shee and G. Deo.
 30. Mechanistic Study of ODH of Propane over V_2O_5/SiO_2 Catalyst: Analysis of Kinetic parameters Chemcon- 2006, IChE Annual Meeting, Ankleshwar, 2006, S. Chakraborty, D. Shee and G. Deo.
 31. Promotion of Propane Oxidation Activity over Supported V_2O_5/TiO_2 Catalyst Modified with MoO_3 and WO_3 Chemcon-2006, IChE Annual Meeting, Ankleshwar 2006, S. Agarwal, Anita, T.V.M. Rao and G. Deo.
 32. Bio-Inspired Adhesion on patterned elastic film, Conference on Assembly, Organization and Propulsion in Complex Systems, 22nd-24th February, 2007. Indian Institute of Technology, Madras, A. Ghatak.
 33. Manpower needs of Oil & Gas Industries - Role of Educational Institutions, P.C. Ray Memorial Lecture, 22nd National Seminar, Institution of Engineers (I) Delhi chapter, New Delhi, September 2006. Published in the proceedings, J.P. Gupta.
 34. Chemical Emergency Management, Invited Lecture at International Workshop on Dangerous Goods Management and Emergency Response, organized by

- Taiwan Major Industrial Accident Prevention Association, Taiwan, October, 2006. Published in the proceedings, J.P. Gupta.
35. Inherently Safer Design: Concepts and Applications, Invited Lecture at First Joint Symposium of Industry - Academy, Gyeongju, Korea, Dec. 2006. Published in the Proceedings, J.P. Gupta.
 36. CFD simulation of Bubble Column Reactor, Energy and environmental issues related to chemical industry, Institution of Engineers, Lucknow, 10th March 2007, Anand Bharti, Arunesh Kumar, Sujith Sudhakaran, Ashok Khanna.
 37. Simulation of Aromatic Recovery Process, Energy and environmental issues related to chemical industry, Institution of Engineers, Lucknow, 10th March 2007, Shreyansh Singh, Ranjan K Sahoo, Ashok Khanna.
 38. Experiment and CFD modeling of two phase cocurrent bubble column, International Conference on Catalysis in Multiphase Reactors (CAMURE-6), International Symposium on Multifunctional Reactors(ISMR-5), NCL-Pune, 14th - 17th Jan 2007, Arunesh Kumar, Anand Bharti, Sujith Sudhakaran, Ashok Khanna.
 39. Modeling of Poly Lactic Acid Synthesis, International Conference on Design of Biomaterials (BIND-06), IIT Kanpur, 8th - 11th Dec 2006, Swagat S Rath, Sandeep pillai, Ashok Khanna.
 40. Kinetics of Oxidative Dehydrogenation of Propane over Undoped and Doped Vandia-Zirconia Catalysts, 19th International Symposium on Chemical Reaction Engg., Potsdam, Germany, Sep 3-6, 2006, M. De and D. Kunzru.
 41. High Pressure Thermal Cracking of n-Heptane, CHEMCON-2006, Bharuch, Dec 27-30, 2006, J. P. Chakraborty, P. Sen and D. Kunzru.
 42. Gas-Liquid Downward Flow in Circular Capillaries, CAMURE-6 & ISMR-5 Symposium, Pune, Jan 14-17, 2007, M. Ashwini Kumar and D. Kunzru.
 43. Activated Carbon Fibers for the Control of NO_x and SO_x Emissions All India Conference on Energy and Environmnetal Issues Related to Chemical Industries, IChE (Kanpur Chapter) March 10-11, 2007, Lucknow, India, R. Singh, R. Verma, N. Verma.
 44. Activated Carbon Fibers as Substrate for Growth of Carbon Nanofibers, ICRACM, - 2007, Janaury 15-18, 2007, New Delhi (India), R. Singhal, A. Sharma, N. Verma.
 45. Continuous removal of recalcitrant solutes from wastewater by multi-stage fluidized bed column, Chemcon-2006, December 20-25, 2006, Ankleshwar (India), R. Verma, and N. Verma
 46. Rajbongshi, P. and Das, A., Temperature stresses in concrete pavement - a review, International Conference on Civil Engineering in the New Millennium : Opportunities and Challenges (CENeM 2007), Bengal Engineering and Science University, Shibpur, January 11-14, 2007.

47. Chakroborty, P., Agarwal, P. K., and Das, A., Simple model to predict the structural condition of asphalt concrete pavements at the network level, TRB 86th Annual Meeting, Washington, D. C., January 21-25, 2007.
48. Goel, A. and Das, A., A brief review on different surface wave methods and their applicability for non-destructive evaluation of pavements, Proceedings of 2006 Highway Geophysics - NDE Conference, St. Louis, Missouri, December 4-7, 2006, pp.337-350.
49. Mitra, K., Das, A. and Basu, S. Micromechanical analysis of asphalt concrete, Proceedings of 2nd International Congress on Computational Mechanics and Simulation, IIT Guwahati, ICCMS-06, December 8-10, 2006, Guwahati, Vol.2, Part XXVI, pp.2062-2066.
50. Singh, R., Quaff, A. R., Guha, S., Harendranath, C. S. Stability of Granules in UASB Reactors Treating Low Strength Wastewater: Flow Variability and Low COD, International Conference on Civil Engineering in New Millennium, CENEM 2007, Jan 11-14, 2007, Bengal Engineering and Science University, Shibpur, Howrah, West Bengal, India.
51. Quaff, A. R., Arokia, V. J., Guha, S., Harendranath, C. S. Population Shift During Startup of UASB Reactor treating Domestic Wastewater, International Conference on Civil Engineering in New Millennium, CENEM 2007, Jan 11-14, 2007, Bengal Engineering and Science University, Shibpur, Howrah, West Bengal, India.
52. Quaff, A. R., Arokia, V. J., Singh, R., Guha, S., Harendranath, C. S. Startup of UASB reactor using low strength domestic wastewater, International Workshop on Biotechnology of Anaerobic Bacteria & Archaea, March 3 & 4, 2006, Agharkar Research Institute, Pune, India.
53. Arokia, V. J., Quaff, A. R., Singh, R., Harendranath, C. S., Guha, S. Application of Image Analysis and Electron Optical Techniques in the Evaluation of Anaerobic Process, International Workshop on Biotechnology of Anaerobic Bacteria & Archaea, March 3 & 4, 2006, Agharkar Research Institute, Pune, India.
54. Distortional buckling in monosymmetric I beams, Ashwini Kumar and A .Samanta, Proc. 2nd International Congress on Computational Mechanics and Simulation, IIT Guwahati, December 8-10, 2006, pp 1-10.
55. Lohani, B., Reddy, P., and Mishra, R., 2006, Airborne Altimetric LiDAR Simulator: An education tool, International Archives of the Photogrammetry, Remote Sensing and Spatial Information Science, XXXVI(6), Tokyo, Japan
56. Lohani, B., and Sreenivas, B. 2006, Tidal channel identification from remotely sensed data using shape and spectral characteristics. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Science, Goa, India.

57. Ghosh, S., and Lohani, B., 2007, Development of a system for 3D visualization of LiDAR data, Proceedings of Map World Forum 2007, Hyderabad, India.
58. Lohani, B., and Singh, R., 2007, Development of a Hough Transform based algorithm for extraction of buildings from actual and simulated LiDAR data, Proceedings of Map World Forum 2007, Hyderabad.
59. Roy D and Jain S K., Design of Earth Dams and Embankments for Earthquakes, Proceedings of the 6th International R&D Conference on Sustainable Development of Water and Energy Resources - Needs and Challenges, February 13-16, 2007, Lucknow.
60. Rai D. C. and Jain S K. Some Issues on Seismic Design of Concrete Gravity Dams, Proceedings of the 6th International R&D Conference on Sustainable Development of Water and Energy Resources - Needs and Challenges, February 13-16, 2007, Lucknow.
61. Jain S K, Implications of the 2004 Great Sumatra Earthquake and Tsunami for Risk Reduction in India, Proceedings of the Eighth US National Conference on Earthquake Engineering, San Francisco, USA, April 2006.
62. Kaushik H B and Jain S K., Performance of Buildings in Port Blair (India) During the Great Sumatra Earthquake of 26 December 2004, Proceedings of the Eighth US National Conference on Earthquake Engineering, San Francisco, USA, April 2006.
63. Mondal G and Jain S K. Lateral Stiffness of Unreinforced Brick Infilled RC Frames with Central Openings, Proceedings of the Eighth US National Conference on Earthquake Engineering, San Francisco, USA, April 2006.
64. Murty, C.V.R., Dash, S.R., and Dasgupta, K., Open Ground Storey RC Frame Buildings with 230mm Columns unsafe during Earthquakes, National Seminar on Seismic Detailing of RCC Structures, Madras, India, 26-27 May 2006, pp 1-30.
65. Sinha, R. (2006) The Ganges dispersal system: geomorphic diversity and implications for sediment flux modeling. International Conference on Deltas: Depositional systems and stratigraphic development, Brunei Darussalam, January 13-18, 2006.
66. Sinha, R., Gibling, M.R., & Tandon, S.K. (2006) Valley migration and stratigraphic development in the Ganga plains as evidenced from shallow cores. Fluvial conference on IGCP518 and IAG Working Group on Large Rivers. Shanghai and Nanjing, 9-16, October, 2006.
67. Aerosol Black Carbon measurements at a typical location in Indo-Gangetic Basin, TROPMET organized by Indian Institute of Tropical Meteorology, Pune, November 21-23, 2006, Vol.-II, pp. f79-f80, S. N. Tripathi, Atul K. Srivastava, Sagnik Dey and Nimisha Srivastava.

68. 5 year climatology of aerosol forcing in the Indo-Gangetic plain, TROPMET organized by Indian Institute of Tropical Meteorology, Pune, November 21-23, 2006, Vol.-II, pp. f81-f82, Sagnik Dey and S. N. Tripathi.
69. Aerosol radiative effects in the winter in Kanpur, northern India, TROPMET organized by Indian Institute of Tropical Meteorology, Pune, November 21-23, 2006, Vol.-II, pp. f83-f85, Sagnik Dey and S. N. Tripathi.
70. Contrasting aerosol-cloud interaction in the Indo-Gangetic Plain, TROPMET organized by Indian Institute of Tropical Meteorology, Pune, November 21-23, 2006, Vol.-II, pp. f86-f88, Abani Pattnaik, Sagnik Dey and S. N. Tripathi.
71. Occlusion Sequence Mining for Complex Multi-Agent Activity Discovery Proceedings of the IEEE Visual Surveillance Workshop, Graz, Austria, May 13 2006, Prithwijit Guha, K.S. Venkatesh, Arindam Biswas and Amitabha Mukerjee,
72. Perceptual Theory of Mind: An intermediary between visual salience and Noun/Verb Acquisition, Proceedings of the International Conference on Developmental Learning, Bloomington, Indiana, May 31-June 3, 2006, Amitabha Mukerjee and Mausoom Sarkar.
73. Confidence Based updation of Motion Conspicuity in Dynamic Scenes, Proceedings of the Third Canadian Conference on Computer and Robot Vision 2006 Ottawa, Canada, July 2006, Subhransu Maji, Amitabha Mukerjee, and Vivek Kumar Singh.
74. Intrusion Detection and Tracking with Pan-Tilt Cameras, Proceedings of the International Conference on Visual Information Engineering (VIE 2006), Bangalore, India, September 26-28, 2006, A. Biswas, P. Guha, A Mukerjee, K. S. Venkatesh.
75. Surveillance Video Mining, Proceedings of the International Conference on Visual Information Engineering (VIE 2006), Bangalore, India, September 26-28, 2006, P. Guha, A. Biswas, A. Mukerjee, P. Sateesh, and K. S. Venkatesh.
76. Physical and Intelligent Programmable blocks based Educational Toy Robot, Recent Developments and Future Trends in Mechanical Engineering (RDFTME-2006), NIT Hamirpur, November 3-4, 2006, Anjali V. Kulkarni, Mukesh Singh, A. Mukerjee.
77. Colour and Feature Based Multiple Object Tracking Under Heavy Occlusions, ICAPR 2007, Calcutta, January 2-4, 2007, Pabboju Sateesh Kumar, Prithwijit Guha and Amitabha Mukerjee.
78. Multi-Agent Tracking under Complex Occlusions Pacific Rim, Conference on AI (PRICAI 2006), Guilin China, August 2006, Prithwijit Guha and Amitabha Mukerjee and K.S. Venkatesh.

79. Spatiotemporal Discovery: Appearance + Behavior = Agent, Proceedings 5th ICVGIP-06 Madurai, December 13-16, 2006, Springer Verlag LNCS 4338, Prithwjit Guha and Amitabha Mukerjee and K.S. Venkatesh.
80. Activity Discovery from Occlusion Primitives. International Conference on Pattern Recognition, ICPR 2006, Hong Kong, August 2006, Prithwjit Guha and Amitabha Mukerjee and K.S. Venkatesh and Pabitra Mitra.
81. Babys Day Out: Attentive Vision for Pre- linguistic Concepts and Language Acquisition Proceedings of the 4th Workshop on Attention in Cognitive Systems WAPCV-2007}, Springer Verlag LNCS, Hyderabad, January 8, 2007, ed. Lucas Paletta and Erich Rome, Springer Verlag, pp 81-94, Prithwjit Guha, Amitabha Mukerjee.
82. A Multiscale Co-linearity Statistic Based Approach to Robust Background Modeling, Proceedings of the 7th Asian Conference on Computer Vision, Springer LNCS, pp 297-306, Hyderabad (India), January 13-16, 2006, Prithwjit Guha, Dibyendu Palai, K.S. Venkatesh and Amitabha Mukerjee.
83. Grounded Acquisition of Containment Preposition, Proc ICON-2007, Hyderabad, India, January 4-5, 2007, pp 81-90, Amitabha Mukerjee and Mausoom Sarkar.
84. INGIT: Limited Domain Formulaic Translation from Hindi to Indian Sign. Language Proc ICON-2007 Hyderabad, India, January 4-5, 2007, p. 69-78, Purushottam Kar, Madhusudan Reddy, Amitabha Mukerjee, Achla M Raina.
85. Detecting Complex Predicates in Hindi using POS Projection across Parallel Corpora Coling/ACL, Workshop on Multi-Word Expressions, Sydney, July 23, 2006, Amitabha Mukerjee, Ankit Soni, and Achla M Raina.
86. Grounded Perceptual Schemas: Developmental Acquisition of Spatial Concepts, Proceedings of the International Conference on Spatial Cognition, Bremen, Germany, September 24-28, 2006, Springer, Amitabha Mukerjee and Mausoom Sarkar.
87. Long-Distance 802.11b Links: Performance Measurements and Experience, 12th Annual International Conference on Mobile Computing and Networking (MOBICOM), Los Angeles, USA., Sep. 2006, Kameswari Chebrolu, Bhaskaran Raman, and Sayandeep Sen.
88. Rural Telephony: A Socio-Economic Case Study, International Conference on Information and Communication Technologies and Development (ICTD-2006), U.C.Berkeley, May 2006, Sayandeep Sen, Sukant Kole, and Bhaskaran Raman.
89. Wake-on-WLAN, The 15th Annual International World Wide Web Conference (WWW 2006), Edinburgh, Scotland, May 2006, Nilesh Mishra, Kameswari Chebrolu, Bhaskaran Raman, and Abhinav Pathak.

90. Channel Allocation in 802.11-based Mesh Networks, The 25th Annual Conference on Computer Communications (IEEE INFOCOM), Barcelona, Spain, April 2006, Bhaskaran Raman.
91. Implications of Link Range and (In)Stability on Sensor Network Architecture, The First ACM International Workshop on Wireless Network Testbeds, Experimental evaluation and CHaracterization (WiNTECH 2006), A MOBICOM 2006 Workshop, Los Angeles, USA, September 2006, Bhaskaran Raman, Kameswari Chebrolu, Naveen Madabhushi, Dattatraya Y Gokhale, Phani K Valiveti, and Dheeraj Jain.
92. WiBeaM: Wireless Bearing Monitoring System, Wireless Systems: Advanced Research and Development (WISARD 2007), A workshop in COMSWARE 2007, Bangalore, India, January 7-8, 2007, VMD Jagannath, Bhaskaran Raman.
93. S-WOW: Signature based Wake-on-WLAN, Wireless Systems: Advanced Research and Development (WISARD 2007), A workshop in COMSWARE 2007, Bangalore, India, 7-8 Jan 2007, Nilesh Mishra, Dheeraj Golchha, Akhilesh Bhadauria, Bhaskaran Raman, Kameswari Chebrolu.
94. WiFiDump - A Novel Architecture for Wireless Network Debugging, Wireless Systems: Advanced Research and Development (WISARD 2007), A workshop in COMSWARE 2007, Bangalore, India, January 7-8, 2007, Abhijit Bagri, Mohit Mundhra, Abhinav Pathak, Bhaskaran Raman.
95. Application Layer and In-kernel Filtering in the Network Monitoring Tool PickPacket, Proceedings of the 2nd Intl Conf. on Global E-Security (ICGeS 2006), London, UK, Apr. 2006, Brajesh Pande, Dheeraj Sanghi and Deepak Gupta.
96. A Scaleable Approach to IP Anycast Security, In Proceedings of the IASTED International Conference on Communication, Network and Information Security, Cambridge, MA, October 2006, Abhinav Pathak and Dheeraj Sanghi.
97. Transcript: A Secure and Transparent Encrypting File System, In Proceedings of the 8th International Symposium on Systems and Information Security (SSI 2006), Sai Paulo, Brazil, Nov. 2006, Satyam Sharma, Rajat Moona and Dheeraj Sanghi.
98. Comparing control flow based coverage criteria based on seeded faults, 12th International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS-06), Vienna, Austria, April 2006, pp 365-378, Atul Gupta and Pankaj Jalote.
99. Automated Objects Statechart Generation and Testing from Class Method Contracts, 3rd Intl Workshop on Model Development, Validation, and Verification (MoDeV2a-06) co-located with 9th ACM/IEEE Intl. Conference on Model Driven Engineering Languages and Systems (MoDELS/UML 2006), Genova, Italy, October 2006, pp 30-45, Atul Gupta.

100. On Strengthening Method Contracts for Objects, 13th Asia-Pacific Software Engineering Conference (APSEC-06), Bangalore, India, December 2006, pp 233-240, Atul Gupta and Amit Raj.
101. A Multipurpose Code Coverage Tool for Java, 40th Hawaii Intl Conference on System Sciences (HICSS-07), mini-track: Automated Software Testing and Analysis: Techniques, Practices, and Tools, Waikoloa, Hawaii, January 2007, pp 261b, Raghu L., Atul Gupta, and Pankaj Jalote.
102. Selective Hypertext Induced Topic Search, 15th International World Wide Web Conference (WWW2006), Edinburgh, May 23-26, 2006, Amit Awekar, Pabitra Mitra, Jaewoo Kang, Harish Karnick.
103. A Knowledge and Data Based Hybrid Approach to Gene Clustering, Proceedings 5th International Conference on Bioinformatics of Genome Regulation and Structure (BGRS2006), Novosibirsk, Russia, July 16-22, 2006, Abhishek K., Harish Karnick, Pabitra Mitra.
104. Computational models of language learning in a community of agents, Cognitive Linguistics Session, Linguistic Society of India, Annual Conference 2006, November 2-4, 2006, Harish Karnick.
105. Metaphor Creation: A Cognitive Semantic Approach, Cognitive Linguistics Session, Linguistic Society of India, Annual Conference 2006, November 2-4, 2006, Somsukla Banerjee, Achla Raina, Harish Karnick.
106. Improved Kernel Matrix Learning by Minimizing the Upper Bound on the VC Dimension, in Proceedings of the 3rd Workshop on Computer Vision Graphics and Image Processing 2006 (WCVGIP06), Hyderabad, January 12-13, 2006, V. Vijaya Saradhi and Harish Karnick.
107. Learning a Language for Spatial Terms in a Community of Agents, in 2nd Int. Conf. on Cognitive Science (ICCS2006), Allahabad, India, December 10-12, 2006, Harish Karnick, B Madhu Sudan.
108. Polysemy in the Concept Space, in 2nd Int. Conf. on Cognitive Science (ICCS2006), Allahabad, India, December 10-12, 2006, Somsukla Banerjee, Achla Raina, Harish Karnick.
109. Kernel-based online machine learning and support vector reduction, accepted at European Symposium on Artificial Neural Networks 2007 (ESANN07), Bruges, Belgium, April 25-27, 2007, Sumeet Agarwal, V. Vijaya Saradhi and Harish Karnick.
110. The Polynomially Bounded Perfect Matching Problem is in NC^2 , in 24th Symposium on Theoretical Aspects of Computer Science, 2007, LNCS 4349, pp 489-499, Manindra Agrawal, T. M. Hoang and T. Thierauf.
111. Behavioural Approximations for Restricted Linear Differential Hybrid Automata, in 9th International Workshop on Hybrid Systems: Computation

- and Control, 2006, LNCS 3927, pp 4-18, Manindra Agrawal, Y. Shaofa, F. Stephan, P. S. Thiagarajan.
112. A Polynomial-time Nilpotence test for Galois groups and related results, in 31st International Symposium on Mathematical Foundations of Computer Science (MFCS 2006), St\ar\ a Lesna, Slovakia, August 2006, Vikraman Arvind and Piyush P Kurur.
 113. Identification of Parameters and Restoration of Motion Blur Images, Proceedings of the 2006 ACM Symposium on Applied Computing, Dijon, France, 2006, pp 301-305, R. Lokhande, K. V. Arya and P. Gupta.
 114. Multimodal Biometrics System for Efficient Human Recognition, Proceedings of SPIE Defense and Security Symposium, Florida, USA, April 2006, Phalguni Gupta, Ajita Rattani, Hunny Mehrotra and Anil Kumar Kaushik.
 115. Iris Recognition using Corner Detection, in 23rd International Biometric Conference, Montreal, Canada, July 2006, P. Gupta, H. Mehrotra, A. Rattani, A. Chatterjee and A. K. Kaushik.
 116. An Illumination Invariant Face Recognition System, IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR), New York, USA, June 2006, Nikunj Kela, Ajita Rattani and Phalguni Gupta.
 117. Fusion of Iris and Fingerprint Biometric For Recognition, Proceedings of International Conference on Signal and Image Processing (ICSIP), Karnataka, India, December 2006, Hunny Mehrotra, Ajita Rattani and Phalguni Gupta.
 118. A Simple Geometric Approach for Ear Recognition, Proceedings of 9th International Conference on Information Technology (CIT), Bhubaneswar, India, December 2006, Dasari Shailaja and Phalguni Gupta.
 119. A Hybrid Routing Protocol for Large Scale Mobile Ad Hoc Networks with Mobile Backbones, Proceedings of the 13th International Conference on High Performance Computing (HiPC 2006), Bangalore, December 2006, A. Pandey and P. Gupta.
 120. Geometric Modeling and Manufacturing of Drills, Proceedings of 22nd AIMTDR conference, December 2006, Roorkee, India, P. Tandon, P. Gupta and S. G. Dhande.
 121. Ear Biometrics: A New Approach, Proceedings of International Conference on Advances in Pattern Recognition (ICAPR), Kolkata, India, January 2007, Anupam Sana, Phalguni Gupta and Ruma Purkait.
 122. Registration Algorithm for Motion Blurred Images, Proceedings of 6th International Conference on Advances in Pattern Recognition (ICAPR 2007), Kolkata, January 2-4, 2007, India, K. V. Arya and P. Gupta.
 123. Localization of Ear Using Outer Helix Curve of the Ear, Proceedings of International Conference on Computing: Theory and Applications (ICCTA), Kolkata, India, March 2007, Saeeduddin Ansari and P Gupta.

124. Surface Modeling of Multi-point, Multi-flute Cutting Tools, Proceedings of 2nd International Conference on Computer Graphics Theory and Applications (GRAPP), Barcelona, Spain, March 8-11, 2007, Puneet Tandon, P. Gupta and S. G. Dhande.
125. An Efficient Fusion Strategy for Multimodal Biometric System, Proceedings of 2nd International Conference on Computer Vision Theory and Applications (VISAPP), Barcelona, Spain, March 8-11, 2007, Hunny Malhotra, N. Agarwal, P. Gupta and C. J. Hwang.
126. An Efficient Indexing Scheme for Binary Feature Based Biometric Database, Proceedings of SPIE Defense and Security Symposium, Orlando Florida, April, 2007, C. J. Hwang, Phalguni Gupta, Anupam Sana, and Hunny Mehrotra.
127. Automatic Generation of BPEL and WSDL from FSM models of Web Services, ADCOM 2006, December 20-23, 2006, H. Mohanty, R. K Shyamsundar and R. K. Ghosh.
128. A Self-adaptive Hybrid Channel Assignment Scheme for Wireless Communication System, ICIT 2006, December 18-20, 2006, Ashok K. Prajapati, R. K. Ghosh and Hrushikesh Mohanty.
129. Database Summarization and Publishing in Wireless Environments, ICDCN 2006, Dec 27-30, 2006, Anshul Gandhi, R. K. Ghosh.
130. On Design Of A Question-Answering Interface For Hindi In A Restricted Domain, ICAI06 - The 2006 International Conference on Artificial Intelligence, Las Vegas, Nevada, USA, June 26-29, 2006, R.M.K. Sinha.
131. On Translation Of Interrogative Sentences From Hindi To English, MLMTA06-The 2006 International Conference on Machine Learning; Models, Technologies and Applications, Las Vegas, Nevada, USA, June 26-29, 2006, R.M.K. Sinha and A. Thakur.
132. A Hybrid Approach to Sentence Alignment Using Genetic Algorithm, Proceedings of International Conference on Computing: Theory and Applications (ICCTA 2007), IEEE Computer Society Press, March 2007, Mrityunjay Gautam and R.M.K. Sinha.
133. Document layout analysis and classification and its application in OCR, IEEE International Workshop on the Electronic Document Management in an Enterprise Computing Environment (IEEE EDM 2006), Hong Kong, October 2006, Gaurav Gupta, Shobhit Niranjana, Ankit Shrivastava and R.M.K. Sinha.
134. Universality for Nondeterministic Log space, Proceedings of the 1st International Conference on Language and Automata Theory and Applications, Tarragona, Spain, March 3-4 April, 2007, Vinay Choudhary, Anand Kumar Sinha and Somenath Biswas.
135. Faster Algorithms for Approximate Distance Oracles and All-Pairs Small Stretch Paths, Proceedings of 47th IEEE Symposium on Foundations of

- Computer Science (FOCS06), Berkeley, CA, USA, October 22-24, 2006, pp 591-602, Surender Baswana and Telikepalli Kavitha.
136. A Deterministic Technique for Extracting Keyword Based Grammar Rules from Programs, Proceeding of the 2006 ACM Symposium on Applied Computing (ACM SAC 2006), Dijon, France, April 2006, pp 1631-1632, ACM, Dubey Alpana, Pankaj Jalote, Sanjeev K Aggarwal.
 137. A Workflow Editor and Scheduler for Composing Applications on Computational Grids, Workshop on Scheduling and Resource Management for Parallel and Distributed Systems (SRMPDS06), Proceedings of 12th International Conference on Parallel and Distributed Systems (ICPADS06), July 2006, pp 127-132, IEEE, Kadav, Arati, Sanjeev K Aggarwal.
 138. Inferring Grammar Rules of Programming Language Dialects, Proceedings of 8th International Colloquium on Grammatical Inference (ICGI 2006), LNAI 4201, Springer Verlag, Tokyo, Japan, September 2006, pp 201-213, Springer, Dubey Alpana, Pankaj Jalote, Sanjeev K Aggarwal.
 139. Estimating Entropy over Data Streams, Proceedings of the Fourteenth Annual European Symposium on Algorithms (ESA), September 2006, pp 148-159, Lakshminath Bhuvanagiri and Sumit Ganguly.
 140. On Estimating Path Aggregates over Streaming Graphs, Proceedings of the Seventeenth International Symposium on Automata, Algorithms and Computations (ISAAC) December 2006, pp 163-172, Sumit Ganguly and Barna Saha.
 141. Deterministic k-set Structure, Proceedings of the Twenty-Fifth ACM SIGACT-SIGMOD-SIGART Symposium on Principles of Database Systems (PODS), June 2006, pp 280-289, Sumit Ganguly and Anirban Majumder.
 142. OntoViz: Visualizing Ontologies and Thesauri Using Layout Algorithms AOS@AFITA 2006, Bangalore, November 2006, Gagandeep Singh, Prabhakar T.V, Jayanta Chatterjee.
 143. From the Policy Framework for Competitive Agriculture to a Knowledge Ecosystem Development Process-Some Empirical Findings, Symposium on Competitiveness in the Knowledge Economy: Imperatives of Change at IMI, Delhi, November, 2006, Sarkar R., Chatterjee J., and Prabhakar, T.V.
 144. Managing Agri-Knowledge Diffusion in Rural India, 5th Conference of the Asian Federation for Information Technology in Agriculture, AOS Section, Bangalore, India, November 2006, Singh M.D., Chatterjee J., and Prabhakar, T.V.
 145. Agrovisual, An Open Source Approach to a Visual Thesaurus for Agriculture, International Conference on Semantic Web and Digital Libraries, ICSD 2007, Bangalore, India, February 2007, Singh J., Chaterjee J., Prabhakar T.V.

146. Towards Digital Ecosystems for Skill Based Industrial Clusters: Lessons from the DEAL Project, IEEE International Digital Ecosystems and Technology Conference, Cairns, Australia, February 2007, Sarkar, R., Chatterjee, J. and Prabhakar, T.V.
147. Reliability and Performance of Component Based Software Systems with Restarts, Retries, Reboots and Repairs, in Proceedings of the 17th IEEE International Symposium on Software Reliability Engineering (ISSRE), Raleigh, NC, USA, November 2006, Vibhu Saujanya Sharma, Kishor S. Trivedi.
148. Stabilization Time - A Quality Metric for Software Products, in Proceedings of the 17th IEEE International Symposium on Software Reliability Engineering (ISSRE), Raleigh, NC, USA, November 2006, Vibhu Saujanya Sharma, Pankaj Jalote.
149. A Performance Engineering Tool for Tiered Software Systems, in Proceedings of the 30th IEEE Annual International Computer Software and Applications Conference (COMPSAC), Chicago, IL, USA, September 2006, Vibhu Saujanya Sharma, Pankaj Jalote, Kishor S. Trivedi.
150. Polynomial Identity Testing for Depth 3 Circuits, Computational Complexity Conference, July 2006, Best Paper Award, and the Ronald V. Book Best Student Paper Award, Neeraj Kayal and Nitin Saxena.
151. What Humour Tells Us About Discourse Theories, EACL 2006 Student Research Workshop, Strony 31-38, April 2006, Arjun Karande.
152. Integrating static and dynamic analysis for detecting vulnerabilities, Proceedings of the 30th IEEE Annual International Computer Software and Applications Conference (COMPSAC), September 2006, Ashish Aggarwal and Pankaj Jalote.
153. Strengthening Method Contracts for Objects, Proceedings of XIII Asia Pacific Software Engineering Conference (APSEC 2006), Bangalore, India, December 2006, pp 233-242, Atul Gupta and Amit Raj.
154. Implementing a Cooperative MAC Protocol for Wireless LANs, Proceedings of IEEE International Conference on Communications (ICC), Istanbul, Turkey, June 2006, T. Korakis, S. Narayanan, A. Bagri and S. Panwar.
155. Precise dynamic slicing using execution summary, in Proceedings of 22nd Annual ACM Symposium on Applied Computing (SAC-07) (Programming Languages Track), Seoul, Korea, March 2007, pp 1330-1331, ACM Press, Avik Paul, Rajeev Kumar.
156. Change Management in Semantic Business Process Modeling, Eighth International Symposium on Autonomous Decentralized Systems (ISADS 2007), March 2007, Uttam Kumar Tripathi, Knut Hinkelmann.

157. Gossip based streaming with incentives for peer collaboration, Proceedings of Eighth IEEE International Symposium on Multimedia (ISM 2006), San Diego, USA, December 2006, pp 629-636, Sachin Agarwal, Shruti Dube.
158. Reliability-Based Multi-Objective Optimization Using Evolutionary Algorithm, Proceedings of Fourth International Conference on Evolutionary Multi-Criterion Optimization (EMO2007), Japan, February 2007, K.Deb, D.Padmanabhan, S.Gupta, A.K.Mall.
159. Goodness criteria for Programming Language Grammar Rules, SIGPLAN Notices, December 2006, pp 44-53, Alpana Dubey.
160. On indecomposability preserving elimination sequences, 12th International computing and combinatorics Conference (COCOON 2006), Taipei, Taiwan (Republic of China), 15-18 August, 2006, LNCS-4112, pp 42-51, Chandan K. Dubey and Shashank K. Mehta.
161. Algorithms on Graphs with small dominating targets, Proceedings of the 17th International Symposium on Algorithms and Computation (ISSAC 2006), Kolkata, 18-20 December 2006, LNCS-4288, pp 141-152, Divesh Aggarwal, Chandan K. Dubey, Shashank K. Mehta.
162. Different cultures of prospectors and defenders, Proceedings, International Conference on Operations and Quantitative Methods - VII, Jaipur India, Aug 3-5, 2006, pp. 777 - 782, Sharma, R.R.K. and Suhail, A.
163. Best permutation for dynamic plant layout problem, Proceedings, International Conference on Operations and Quantitative Methods - VII, Jaipur India, Aug 3-5, 2006, pp. 356-362, Singh, S.P. and Sharma, R.R.K.
164. Policy Approaches to Induce Corporate Social Responsibility in Public and Private Sector Firms in Developing Countries, International Corporate Responsibility 2006, HongKong, September 22-24, Sarkar, R.
165. Corporate Environmental Behaviour: A Comparative Study of Firms in the Indian Steel and Paper Industry, Ninth Biennial Conference of the International Society for Ecological Economics, Delhi, Dec15-19, 2006, Sarkar, R.
166. Towards Digital Ecosystems for Skill Based Industrial Clusters: Lessons from the DEAL Project, IEEE International Digital Ecosystems and Technology Conference, Australia Feb 2007, Sarkar, R., Chatterjee, J. and Prabhakar, T.V.
167. From the Policy Framework for Competitive Agriculture to a Knowledge Ecosystem Development Process-Some Empirical Findings, Symposium on Competitiveness in the Knowledge Economy: Imperatives of Change at IMI, Delhi, November, 2006, Sarkar, R., Chatterjee, J. and Prabhakar, T.V..
168. Towards A Market for Electricity and Consumer Choice in the Indian Power Sector, IAEE International Conference, (7-10 June, 2006), Potsdam/Berlin, Germany, Singh, Anoop.

169. Barriers to Adoption of Clean and Efficient Technologies in the Indian Power Sector: An Analysis using AHP, Conference on Better Air Quality, Indonesia, 13-15 December, 2006, Singh, Anoop, Srivastava, S. C. and Shrestha, Ram M..
170. Managing Agri-Knowledge Diffusion in Rural India. 5th Conference of the Asian Federation for Information Technology in Agriculture, AOS Section, Bangalore, India, November 2006, Singh, M.D., Chatterjee, J. and Prabhakar, T.V.
171. Onto Viz : Visualizing Ontologies and Thesauri using Layout Algorithms, 7th International Agricultural Ontology Services Workshop in collaboration with FAO, Rome at AFITA 2006, Bangalore, India, November 2006, Prabhakar, T.V., Singh, G., and Chatterjee, J..
172. Curriculum Development Strategy for Visionary Leadership in Manufacturing, Indo-Japan Joint Seminar on Micro/Nano Manufacturing Science, IIT Kanpur, India, December 2006, Chatterjee, J. and Dhande, S.G.
173. Agrovisual, An Open Source Approach to a Visual Thesaurus for Agriculture. International Conference on Semantic Web and Digital Libraries, ICSO 2007, Bangalore, India, February 2007, Singh, J., Prabhakar, T.V., and Chatterjee, J.
174. Towards Digital Ecosystems for Skill Based Industrial Clusters: Lessons from the DEAL Project, IEEE International Digital Ecosystems and Technology Conference, Cairns, Australia Feb 2007, Sarkar, R., Chatterjee, J. and Prabhakar, T.V.
175. Chatterjee, J., and Mukherjee, S.N., Strategic Management of Intangibles and Post-merger Integration Challenges in Technology Services. National Conference on Joint Ventures, Mergers and Acquisitions, Mumbai, India, February, 2007.
176. A Simulation Study of Bullwhip Effect In A Supply Chain with Stochastic Lead Time, INFORMS 2006, Hong Kong, 25th - 28th June 2006, RN Sengupta, K Shanker, and Sunil Agarwal.
177. A study of two different variants of adaptive sampling procedures and some interesting applications in management science, International Conference on Operations and Quantitative Management (ICOQM-VII), Jaipur, India, 3rd - 5th August 2006, RN Sengupta.
178. Supply chain dynamics in stochastic lead time scenario, 39th Annual Convention of Operational Research Society of India (ORSI-2006 CONVENTION & OR Workshop), Kolkata, India, 5th - 7th January, 2007, RN Sengupta, K Shanker, and Sunil Agarwal.
179. Use of Artificial Immune System (AIS) in financial valuation and measurement of financial risk for credit rating, (co-author Rohit Singh), 39th Annual Convention of Operational Research Society of India (ORSI-2006

- CONVENTION & OR Workshop), Kolkata, India, 5th - 7th January, 2007, RN Sengupta and R. Singh.
180. Debating with the Ideology of Globalisation. Core Group Workshop on Science Education In India, March 22-24, 2007, Homi Bhabha Centre For Science Education, Mumbai, Varman, Rahul and Chakrabarti, Manali.
 181. Weaving a Web: Subaltern Consumers, Rising Consumer Culture and Media. Consumer Culture Theory Conference, Notre Dam, USA (2006), Rohit Varman, Russell W. Belk, and Ram Manohar Vikas.
 182. Evaluating Effectiveness of Computing Facilities in Academic Institutes, In Proceedings of International Conference on Software and Data Technologies, Portugal, Sep 11-14, 2006, Smriti Sharma and Veena Bansal.
 183. Website satisfaction: Role of user and website characteristics. Paper accepted in 2nd Indian Institute of Management Ahmedabad, Conference on Research in Marketing, Jan 3-5, 2007, Shukla, A., Swami, S. and Sharma, N. K.
 184. Website Characteristics, User Characteristics, and Purchase Intention: Mediating Role of Website Satisfaction. Paper accepted in Academy of International Business-US Southwest Chapter (AIB-SW), FBD Annual Conference in San Diego, CA, U.S.A., March 14-17, 2007, Shukla, A., Sharma, N. K. and Swami, S.
 185. Strategy & Structure in the Knowledge Enterprise, Symposium on Competitiveness in the Knowledge Economy, IMI, Delhi, 3-4 November, 2006, Arun P Sinha.
 186. On optimum module size for software inspections , invited paper ICQRIT 2006, New Delhi Dec. 02-04,2006, Pankaj Jalote, Ashok K Mittal, Ram Gopal Prajapat.
 187. Dynamic Collision avoidance of free ranging AGV with stationary obstacles , ORSI 2006 Kolkatta, Jan 05-07, 2007, Sudha Arora, A.K. Mittal.
 188. Global Solutions on Hypercube , Invited paper RAOTA -2006 Delhi, Oct 27-28, 2006, Ashok K Mittal.
 189. A priority based conflict resolution approach for automated guided vehicles Proc. 2006 American Control Systems conf , Minneapolis, June 14-16, 2006, Sudha Arora, A.K.Mittal.
 190. Role of buying impulsiveness in brand extension evaluation. Paper accepted in International Conference on Research in Management and Technology, GJ-IMT, Mohali, March 23-24, 2007, Srivastava, K., and Sharma, Narendra K.
 191. Supply chain dynamics in stochastic lead time scenario, 39th Annual Convention of Operational Research Society of India (ORSI-2006 CONVENTION & OR Workshop), Kolkata, India, 5th - 7th January, 2007, RN Sengupta, K Shanker, and Sunil Agarwal.

192. S. Eck, A. Ludwig, D. Mazumdar and J. W. Evans, Experimental and Numerical Modeling of Cu-Sn Casting with Adjustable Solidification Front, Proceedings of SMP-2007, Sheffield (UK)
193. Massive Forge Welded Iron Cannons of India, R. Balasubramaniam, Proceedings of Seminar on History of Science and Technology in India, Ed. R. Hangloo, Hyderabad.
194. Scientific Materials, Equipments and Techniques in Conservation: the Delhi Iron Pillar Example, R. Balasubramaniam, Proceedings of Conference on Materials, Equipments and Techniques for Conservation of Cultural Property - Present , Past And Future, 14 -16 December, 2006, Regional Conservation Laboratory, Mysore.
195. Image Processing: Measurement of Microstructural Parameters, Proceedings of Workshop on Analytical Instrumental Techniques: Current Trends and Practices, RRL Bhubaneswar, 20-23 June 2006, Sandeep Sangal.
196. Stereology: Quantitative Microscopy, Proceedings of Workshop on Analytical Instrumental Techniques : Current Trends and Practices, RRL Bhubaneswar, 20-23 June 2006, Sandeep Sangal.
197. Effect of Sintering Temperature, Heat-Treatment and Tempering on Hardness of SH737-2Cu-0.9C Sintered Samples, Proceedings of the 2006 Powder Metallurgy World Congress, K.Y. Eun and Y.S. Kim (eds.), Part I, 2006, pp. 555-556, S. Anand, N. Verma, and A. Upadhyaya.
198. Effect of Carbon Addition and Sintering Temperature on Densification and Microstructural Evolution of Sinter-Hardening Steels, Proceedings of the 2006 Powder Metallurgy World Congress, K.Y. Eun and Y.S. Kim (eds.), Part I, 2006, pp. 557-558, N. Verma, S. Anand, and A. Upadhyaya.
199. P/M Alloys for Aerospace Applications, Powder Metallurgy Processing for Automotive, Electrical, Electronic, and Engineering Industry, P. Ramakrishnan (ed.), New Age Pub., New Delhi, India, 2007, pp. 29-40, A. Upadhyaya.
200. Effect of Copper-Coated Tungsten Powders during Infiltration Densification of W-Cu System, Powder Metallurgy Processing for Automotive, Electrical, Electronic, and Engineering Industry, P. Ramakrishnan (ed.), New Age Pub., New Delhi, India, 2007, pp. 339-345, A. Özkal, A. Upadhyaya, M.L. Öveçoglu, and R.M. German.
201. Detailed Comparison of Lanthanide Doped Bismuth Titanate Films Grown by Chemical Solution Deposition and Pulsed Laser Ablation, Proceedings of TMS Annual Meeting 2006, 12-16 March 2006, San Antonio (USA), A. Garg, X. Hu and Z.H. Barber.
202. X-ray Diffraction as a tool for Materials Characterization, Proceedings of Workshop on Analytical Instrumental Techniques: Current Trends and Practices, RRL Bhubaneswar, 20-23 June 2006, A.Garg.

203. Innovation and entrepreneurship in Indian universities: A case study of the technology business incubator at the Indian Institute of Technology, Kanpur, Conference on The Triple Helix Paradigm for Development: Strategies for Cooperation and Exchange of Good Practice, Bristol, UK, 17-19 September 2006, R. Shekhar and R. Misra.
204. Role of Mathematical Modeling in Designing Electroremediation Projects for the In-Situ Cleaning of Heavy Metal Contaminated Soils, International seminar on Mineral Processing Technology-2007 (MPT-2007), Indian Institute of Technology Bombay, Mumbai, February 22-24, 2007, K. Sanjay and R. Shekhar.
205. Surface Degradation Studies in Polymer Dielectrics with Nano-sized Fillers, Proceedings of the International conference on Properties and Applications of Dielectric Materials (ICPADM-2006), Bali, Indonesia, June 2006. P. Maity, S. Basu, V. Parameswaran, N. Gupta.
206. Schlieren Imaging of Salt Concentration gradients around a KDP Crystal Growing from its Aqueous Solution presented at the Optical Society of America annual meeting held at Rochester New York in October 2006. K. Muralidhar, A. Srivastava and P.K. Panigrahi.
207. Sensitivity of a square cylinder wake to forced oscillations, paper number FMFP-1111, Proceedings of NCFMFP2006 33rd National and 3rd International Conference on Fluid Mechanics and Fluid Power, December 7-9, 2006, held at IIT Bombay, India. Sushanta Dutta, P.K. Panigrahi and K.Muralidhar.
208. Study of convection around a growing KDP crystal using color schlieren deflectometry, Proceedings of the second National Conference on Recent Developments in Mechanical Engineering, held at Thapar Institute of Engineering and Technology, Patiala during 10-11 November 2006, pp. 328-337. Anamika Sethia Gupta, V.Satish, P.K. Panigrahi, K.Muralidhar, and Rajiv Gupta,
209. Multi agent form closure capture of a generic 2D polygonal object based on projective path planning, Proceedings of the ASME 2006 International Design Engineering Technical Conferences, Philadelphia, USA, Sept., 2006, pp.1-8, Pankaj Sharma, Anupam Saxena, Ashish Dutta.
210. Determination of Optimal Contact Points for Constraining a Prismatic Object by a Group of Mobile Robots, Proceedings of the IEEE International Conference on Robotics, Automation and Mechatronics, Bangkok, 2006, pp. 86-90. Pankaj Sharma, Ashish Dutta, Anupam Saxena.
211. Efficient continuous re-grasp planning for moving and deforming planar objects, Proceedings of the IEEE International Conference on Robotics and Automation, ICRA, 2006, pp. 2472 - 2477, T. Mishra, P. Guha, A. Dutta, and K.S. Venkatesh

212. Immersed boundary method for simulating complex flows, Numerical Methods for Fluid Dynamics (ICFD 07), 9th International Conference, the University of Reading, U.K., 26-29th March 2007, Sudipto Sarkar and S. Sarkar.
213. A Coupled Map Lattice Model of Flow Boiling in a Horizontal Tube, Proc. 18th National & 7th ISHMT-ASME Heat and Mass Transfer Conference, IIT Guwahati, January 4-6, 2006, pp. 559-566. Paper No. HMT-06-C079, P.S Ghoshdastidar and Indrajit Chakraborty
214. An Investigation of Chaos in Pool Boiling using a 3D Coupled Map Lattice Model, Proc. 13th International Heat Transfer Conference, August 13-18, 2006, Sydney, Australia. A. Gupta and P.S.Ghoshdastidar.
215. Analysis of Magnetorheological Abrasive Flow Finishing(MRAFF) Process, Proc. 1st International & 22nd AIMTDR Conference-2006, December 21-23, 2006, IIT Roorkee, pp. 881-886. Manas Das, V. K. Jain and P. S. Ghoshdastidar.
216. PIV investigation of flow behind surface mounted detached square cylinder, 14th International conference on nuclear engineering (ICONE14) and 2006 ASME Joint U.S.-European Fluids Engineering Summer Meeting (FEDSM2006), Miami, Florida, July 17-20 2006, Panigrahi P. K.
217. Experimental investigation of near-field of a heterogeneous coaxial jet using digital particle image velocimetry, Recent Advances in Energy Systems and combustion processes, BIT Mesra, February 2007, pp. 218-225, Ankur D. Bordoloi, P.K. Panigrahi.
218. Emission Control for Two Wheelers in India, Asian Vehicle Emission Control Conference (AVECC) -2006, Jaipur, India, 20-22 September, 2006, B. P. Pundir.
219. CNG: A Clean Transport Fuel - Implementation in South Asia Region, Better Air Quality (BAQ) - 2006, CAI Asia, Yogyakarta, Indonesia, December 11-15, 2006, B. P. Pundir.
220. Computations of Turbulent Flow and Heat Transfer Through a Three-Dimensional Non-Axisymmetric Blade Passage, Proceedings of the ASME IGTI 2006, Barcelona, Spain, May 8-11, 2006, A.K. Saha, Sumanta Acharya.
221. The Role of Leading-Edge Contouring on End-Wall Flow and Heat Transfer: Computations and Experiments, Proceedings of the ASME IGTI 2006, Barcelona, Spain, May 8-11, 2006, A.K. Saha, G.I. Mahmood, Sumanta Acharya.
222. Characteristics of Two-Dimensional Wake Past a Normal Flat Plate, Proceeding of the 33rd National and 3rd International Conference on Fluid Mechanics and Fluid Power, IIT Bombay, Mumbai, December 7-9, 2006, A.K.Saha.
223. Large-Eddy Simulation of Flows Concerning Impinging Jets and Bluff Body Wakes, (Invited Talk), Proceedings of the Eleventh Asian Congress of Fluid Mechanics (11ACFM), May 22-25, 2006, pp. 56-65, , Kuala Lumpur, Malaysia, G.Biswas.

224. Numerical Study of Natural Convection in the Spallation Target Module of an Accelerator Driven Sub-Critical System, 33rd National and 3rd International Conference on Fluid Mechanics and Fluid Power, paper number 1414, IIT Bombay, December 7-9, 2006, K. Arul Prakash, B. V. Rathish Kumar and G. Biswas.
225. A Comparison of VOF and CLSVOF Method for Predicting Surface Tension Dominated Two-Phase Flows, 33rd National and 3rd International Conference on Fluid Mechanics and Fluid Power, paper number 1417, IIT Bombay, December 7-9, 2006. G. Tomar , G. Biswas and A. Sharma.
226. Large Eddy Simulation of Flow Past Square Cylinder with Fine Grid, 33rd National and 3rd International Conference on Fluid Mechanics and Fluid Power, paper number 1308, IIT Bombay, December 7-9, 2006, M. K. Radle, E.G. Tulapurkara and G. Biswas.
227. Fabrication of ABS-Alumina Nanocomposites, Indo-Japan Workshop on Nanotechnology composites, 2006, IIT Kanpur, S. Srivastava, J. Ramkumar and Kamal K. Kar.
228. Redundancy control of robot manipulators using task priority, International Conference on Advances in Control and Optimization of Dynamical Systems, 2007, 72–78. Ashish Singla, Prasad Kulkarni, Sandeep Kumar, Bhaskar Dasgupta.
229. Integrated Resource Development for Design and Analysis of Kinematically Redundant Manipulators, 14th International Conference on CAD/CAM and Factories of the Future (CARS and FOF), Coimbatore, India, 19-22 July 2006. Venkataramani Rakesh, Aurobrata Ghosh, Bhaskar Dasgupta and K. V. Kasiviswanathan.
230. A Novel Potential Field Based Domain Mapping Method, Proceedings of the 10th WSEAS International Conference on COMPUTERS, Athens, Greece, 646-652, 2006, Hari K. Voruganti, Bhaskar Dasgupta and Guenter Hommel.
231. Optimal Design of an Exoskeleton Hip using Three-Degrees-of-Freedom Spherical Mechanism, Proceedings of the Joint Conference on Robotics (ISR/ROBOTIK 2006), Munich, Germany, 15-17 May 2006, Ekta Singla, Bhaskar Dasgupta, Konstantin Kondak, Christian Fleischer and Guenter Hommel.
232. A Simple Surface Representation Scheme for Rigid Body Docking, Proceedings of the 2006 Nanotechnology Conference and Trade Show, Boston, USA, Vol. 2, 313-316, 2006, K. Tripathi, Bhaskar Dasgupta, K. Deb and Hari K. Voruganti.
233. Active Vibration Suppression of a Flexible Link using Ionic Polymer Metal Composite, CISRAM 2006, IEEE International Conference on Robotics, Automation and Mechatronics, IEEE Catalogue Number: 06EX1247C , ISBN: 1-

- 4244-0025-2, 2006, D. Bandopadhyaya, D.B. Bhogadi, B. Bhattacharya, and A. Dutta.
234. A Dynamic Performance Evaluation of Flexible Manipulator with Active Proportional Damping and Estimation Algorithm, CIS-RAM 2006, IEEE International Conference on Robotics, Automation and Mechatronics, IEEE Catalogue Number: 06EX1247C, 2006. 1, D.B. Bandopadhyaya, and B. Bhattacharya.
 235. Glass transition temperature of high molecular weight polystyrene: effect of particle size, bulk to micron to nano, NSTI Nanotech 2006, NSTI Nanotechnology Conference and Trade Show, Boston, MA, United States, May 7-11, 2006, 1 483-486. Pradip Paik and Kamal K. Kar.
 236. Finite Element Analysis of Rubber Pressure Moulding Technique to Fabricate Complex Shaped Fiber Reinforced Plastic Components, ISAMPE National Conference on Composites INCCOM-5, Advanced Systems Laboratory, Kanchanbagh, Hyderabad, November-24-25, 2006, Proceedings, pp. 83-96, S. D. Sharma, Prashant Kumar, A. Mohanty, J. Ramkumar, R. K. Appaji and Kamal K. Kar.
 237. Effect of Nanosized Amorphous Carbon and Curing Agents on Carbonization Behaviour of Carbon-Carbon Composites Through Physical and Thermal Properties, ISAMPE National Conference on Composites INCCOM-5, Advanced Systems Laboratory, Kanchanbagh, Hyderabad, November-24-25, 2006, Proceedings, pp. 201-214, Soumya Sarkar and Kamal K. Kar.
 238. Electroless Deposition of Ni-P Coating on E-glass Fibers: Effect of Process Parameters, ISAMPE National Conference on Composites INCCOM-5, Advanced Systems Laboratory, Kanchanbagh, Hyderabad, November-24-25, 2006, Proceedings, pp. 215-225, Ariful Rahaman and Kamal K. Kar.
 239. Composition, Microstructure and Thermal Properties of Electroless coated thin Co-P Films on Carbon Fibers, ISAMPE National Conference on Composites INCCOM-5, Advanced Systems Laboratory, Kanchanbagh, Hyderabad, November-24-25, 2006, Proceedings, pp. 226-239, Niranjana Patra and Kamal K. Kar.
 240. Model Experiments to Study the Shrinkage Behaviour of Resol Resin During Pyrolysis of Carbon-Carbon Composites, ISAMPE National Conference on Composites INCCOM-5, Advanced Systems Laboratory, Kanchanbagh, Hyderabad, November-24-25, 2006, Proceedings, pp.300, Chinmay Pandya, N. L. Ravikumar and Kamal K. Kar.
 241. Nano Particles Coated Carbon Fibers for Structural Applications: Preparation and Characterizations, ISAMPE National Conference on Composites INCCOM-5, Advanced Systems Laboratory, Kanchanbagh, Hyderabad,

- November-24-25, 2006, Proceedings, pp. 528-539, Prabhat Agnihotri, Akhil Kumar, Ariful Rahaman and Kamal K. Kar.
242. Synthesis and Characterization of Carbon Nanotubes on Carbon Fibers by Thermal Chemical Vapour Deposition, ISAMPE National Conference on Composites INCCOM-5, Advanced Systems Laboratory, Kanchanbagh, Hyderabad, November-24-25, 2006, Proceedings, pp. 540-551, Prabhat Agnihotri, Ariful Rahaman and Kamal K. Kar.
243. Preparation and Characterization of Nano-Crystalline Alumina and its Nanocomposites Made of Acrylonitrile-Butadiene-Styrene Polymer, ISAMPE National Conference on Composites INCCOM-5, Advanced Systems Laboratory, Kanchanbagh, Hyderabad, November-24-25, 2006, Proceedings, pp. 552-561, S. Srivastav, Ariful Rahaman, J. Ramkumar, Kamal K. Kar and S. K. Nayak.
244. Preparation and mechanical Behaviour of Functional Graded Elastomers Nanocomposites Filled with Nanosized Fillers, ISAMPE National Conference on Composites INCCOM-5, November-24-25, 2006, Advanced Systems Laboratory, Kanchanbagh, Hyderabad, Proceedings, pp. 562-572, Ahankari Sandeep S. and Kamal K. Kar.
245. Synthesis and Characterization of High Molecular weight Nano Sized Polyethylene: Effect of Particles Size Macro-Micro-Nano, ISAMPE National Conference on Composites INCCOM-5, Advanced Systems Laboratory, Kanchanbagh, Hyderabad, November-24-25, 2006, Proceedings, pp. 573-582, Pradip Paik and Kamal K. Kar.
246. In-vitro Study of Apatite-Poly(ether ether ketone) Nano Composites: Prosthesis Materials, ISAMPE National Conference on Composites INCCOM-5, Advanced Systems Laboratory, Kanchanbagh, Hyderabad, November-24-25, 2006, Proceedings, pp. 583-592, Sumit Pramanik and Kamal K. Kar.
247. Influence of Process Parameters of Electroless Nickel-Phosphorous Coating on Carbon fibers, 28-30th August 2006, Anna University, College of Engineering, Chennai, Proceedings on International Conference on Advances in Materials processing and Characterization-AMPC(2006), Vol.2, pp.128-132, Prabhat Agnihotri, Ariful Rahaman, Niranjana Patra, J.Ramkumar, S. Basu, Kamal K. Kar and D.Sathiyamoorthy.
248. Experimental and Numerical Investigations of Jet Impingement Cooling of Flat Plate for Controlling the Non-Tail Pipe Emissions from Heavy Duty Diesel Engines, ASME-Internal Combustion Engines Division, Spring Technical Conference 2006, May 7-10, 2006, Aachen, Germany. Sandeep Kumar Goyal, Avinash Kumar Agarwal.
249. Combustion Characteristics of Rice Bran Oil Derived Biodiesel in a Transportation Diesel Engine, ASME-Internal Combustion Engines Division,

- Spring Technical Conference 2006, May 7-10, 2006, Aachen, Germany. Shailendra Sinha, Avinash Kumar Agarwal.
250. Preliminary Investigation into Comparative Performance of Titanium Based Coatings for Automotive Applications Using Biodiesel Blend and Diesel, ASME-Internal Combustion Engines Division, Spring Technical Conference 2006, May 7-10, 2006, Aachen, Germany. Mritunjay Kumar Shukla, Avinash Kumar Agarwal, Ashish Garg.
 251. Determination of optimum process parameters for wrinkle free products in deep drawing process, Proceedings of AMPT 2006, July 30 - Aug 03, 2006, Las Vegas, U.S.A., pp., Anupam Agrawal, N.V. Reddy and P.M. Dixit.
 252. On the temperature analysis of superfinishing alloy steel using flexible magnetic abrasive grinding (FMAG), American Society for Precision Engineering (ASPE), 21st Annual Meeting, Oct. 15 to Oct. 20, 2006, Dharendra Kumar Singh, V.K. Jain, and V.Raghuram.
 253. Nano-finishing Techniques and Pulsating Magnetic Abrasive Finishing, International Conference on Machining Science and Technology- 2006 (ICOMAST-2006), held during 28th - 30th August, 2006 at Melaka, Malaysia 2006, V.K.Jain.
 254. Surface degradation studies in polymer dielectrics with nano-sized fillers, IEEE 8th International Conference on Properties and Applications of Dielectric Materials (IEEE Cat. No. 06CH37773), 2006, p 4, P. Maity S. Basu, V. Parameswaran and N. Gupta.
 255. Analysis of electro mechanical deformation, Proceedings of the Second Int Conf. on Computational Mechanics and Simulation, Guwahati, India, 2006, S.N. Khaderi and S. Basu.
 256. Micromechanical analysis of asphalt concrete. Proceedings of the Second Int Conf. on Computational Mechanics and Simulation, Guwahati, India, 2006, K.Mitra, A.Das and S.Basu
 257. Characterisation of deformation behaviour of glassy polymers using Molecular Dynamics simulations, Proceedings of the Second Int Conf. on Computational Mechanics and Simulation, Guwahati, India, 2006, D. Mahajan and S.Basu.
 258. Atomistically informed continuum analysis of carbon nanotubes, Proceedings of the Second Int Conf. on Computational Mechanics and Simulation, Guwahati, India, 2006, P. Agnihotri Kar K.K. and S. Basu.
 259. Joining Materials with Glass Fiber Reinforced Plastics- an Experimental Study, 19 Austrasian Biennial Conference on the Mechanics of Structures and Materials Nov. 29 to Dec., 2006, University of Canterbury, Chritchurch, New Zealand, Rajeev Kumar and Prashant Kumar.
 260. Molecular Nonlinearities with low power femtosecond lasers, Amit Nag and Debabrata Goswami, 2nd Discussion meeting on Spectroscopy and Dynamics

- of Molecules & Clusters, The International Centre, Dona Paula, Goa, India, Mar.30-Apr.1 (2006), D. Goswami.
261. Chirp Enhanced TPA Cross Section in Liquids: Towards Adiabatic Quantum Computing, Debabrata Goswami, International Symposium on Quantum Optics, Physical Research Labs, Ahmedabad, 24-27 July (2006), D. Goswami.
 262. Ultrafast Laser Phase Induced Enhancement in Two-Photon Molecular Absorption Cross Section for Microscopy, Debabrata Goswami, Wellcome Trust Senior Fellows Meeting, Wellcome Trust, 215 Euston Road, London, UK, 25-26 October (2006) , D. Goswami.
 263. Adiabatic Quantum Computation and Coherent Control, Debabrata Goswami, 7th Asian International Seminar on Atomic and Molecular Physics, Indian Institute of Technology, Chennai, 4-7 December (2006) , D. Goswami.
 264. Study of Optical and Electrical Properties of Imidazolin-5-one Molecules for Optoelectronic Applications, Proceedings of ASID 2006, 8-12 October 2006, New Delhi, pp.244-247, V. Jain, G. Bhattacharjya, Arun Tej, C.K. Suman, R. Gurunath, B. Mazhari and S.S.K. Iyer.
 265. Synthesis, Solid and Solution Phase Structure, and Reactivity of Meso-hydroxylated Heme Incorporating Dimethylphenylphosphine as Axial Ligand, Abstracts of Papers in the 9th CRSI National Symposium in Chemistry (NSC-9) held on University of Delhi from Feb. 1-4, 2007, Sudip Kumar Ghosh, Ranjan Patra and Sankar Prasad Rath.
 266. Adaptive nearest neighbor classifier. Proceedings of 6th International Conference on Advances in Pattern Recognition. World Scientific, Singapore, 2007,281-284, Ghosh, A.K., Pal,P.
 267. De-scalping of the brain in echo planar DT-MRI, Proc.Intl.Soc.Mag. Reson. Med. 14,2006, Rathore, R.K.S.,Purwar, A., Gupta, R.K.,Sarma, M.K., Bayu, G.,Singh, A.,Rathore, D.K.,Saksena, S.,Trivedi, R.,Mishra, A.,Haris, M.,Mohan, P.
 268. A comparison of fiber tracking by different numerical integration methods. Proc. Intl. Soc. Mag. Reson. Med. 14, 2006, Rathore, R.K.S., Gatene Bayu, Gupta, R.K., Rathore, D.K., Purwar, A., Trivedi, R., Saksena, S., Sarma, M.K., Singh, A.
 269. A.Voxel-wise exact T1 estimation for accurate quantitation of perfusion indices using fast 3D-SPGR in intracranial mass lesion. Proc. Intl. Soc.Mag. Reson. Med. 14,2006, Rathore, R.K.S., Singh, A.,Gupta, R.K., Mohan, P., Haris, M., Bayu, G., Rathore, D.K., Purwar, A., Sarma, M.K.
 270. Relative cerebral blood volume is a measure of angiogenesis in brain tuberculoma and its therapeutic implications. Proc. Intl. Soc. Mag. Reson. Med. 14, 2006,Rathore, R.K.S.,Bihari, S., Gupta, R.K.,Haris, M.,Husain, M.,Husain, N., Mohan, P.,Prasad, K.N.,Rastogi, M.,Rathore, D.,Srivastava, C.,Tripathi, M.

271. A DTI analysis Tool. Proc. Euro. Soc. Mag. Reson. Med. 2006, Rathore, R.K.S., Purwar, A., Rathore, D.K., Gupta, R.K.
272. Another Newtonian-Raphson method for 1zH MRS data. Proc. Euro. Soc. Mag. Reson. Med. 2006, Rathore, R.K.S., Sarma, M.K., Gupta, R.K., Purwar, A., Rathore, D.K., Bayu, G., Singh, A.
273. Elastic instabilities in the vortex state of 2H-NbSe₂, Shyam Mohan, Jaivardhan Sinha, S. S. Banerjee, Proceedings of DAE Solid State Physics Symposium 51, 667 (2006)
274. Magneto-optical study of giant magnetic field distribution produced by an intense, femtosecond laser pulse, Jaivardhan Sinha, Shyam Mohan, S. S. Banerjee, S. Kahaly and G. Ravindra Kumar, Proceedings, of DAE Solid State Physics Symposium 51, 943 (2006)
275. Distribution of noise across the peak effect regime, S. S. Banerjee, Shyam Mohan, Jaivardhan Sinha, A. D. Thakur, S. Ramakrishnan, A. K. Grover, A. K. Sood, Proceedings of DAE Solid State Physics Symposium 51, 665 (2006)
276. Microwave driven plasma ion sources for focused ion beam applications, Proceedings of DAE-BRNS, Indian Particle Accelerator Conference-2006, pp.223-224, Bhabha Atomic Research Center and Tata Institute of Fundamental Research, Mumbai, India, November 1-4, 2006, Jose V. Mathew, Abhishek Chowdhury, Sudeep Bhattacharjee.
277. Effect of magnetic field gradient on power absorption in compact microwave plasma sources, Proceedings of DAE-BRNS, Indian Particle Accelerator Conference-2006, pp. 231-232, Bhabha Atomic Research Center and Tata Institute of Fundamental Research, Mumbai, India, November 1-4 206, Indranuj Dey, Md. Shamim, Sudeep Bhattacharjee.
278. Ion beam facilities at IIT Kanpur for micro and nanoscale science and engineering Proceedings of DAE-BRNS, Indian Particle Accelerator Conference - 2006, pp. 127-128, Bhabha Atomic Research Centre and Tata Institute of Fundamental Research, Mumbai, India, November 1-4, 2006, Vishwas N. Kulkarni, S. Bhattacharjee, H. C. Verma, and G. K. Mehta.
279. Model for Wideband Nonlinear Amplifier, Conference Proceedings of Recent Advancements in Microwave Techniques and Applications , Jaipur, India, pp. 387-390, October 6-8, 2006, Mehta Kalpesh B, A. R. Harish, Meenakshi Singh, and Sudeep Bhattacharjee, A.
280. High Frequency Wideband Chaos using solid state amplifier Proceedings of IEEE International Symposium on Microwaves, Bangalore, India, pp 239-245, Dec 15-17, 2006, A. R. Harish, Mehta Kalpesh B. Meenakshi Singh, and Sudeep Bhattacharjee.
281. Focused Ion Beam Studies using a microwave driven plasma source, International Workshop on the physics of mesoscopic and disordered

- materials (MESODIS 2006), pp. 201, Indian Institute of Technology-Kanpur, India, December 04-08, 2006, Jose V. Mathew, Indranuj Dey, and Sudeep Bhattacharjee.
282. Power absorption in compact Microwave Plasma sources, Proceedings of the 21st National Symposium on Plasma Science and Technology, pp 27, Malaviya National Institute of Technology, Jaipur, India, December 19-22, 2006, Indranuj Dey, Md. Shamim, Sudeep Bhattacharjee.
283. Focused ion beam studies using an intense microwave driven plasma source Proceedings of the 21st National Symposium on Plasma Science and Technology, pp 31, Malaviya National Institute of Technology, Jaipur, India, December 19-32, 2006, Jose V. Mathew, Abhishek Chowdhury, Sudeep Bhattacharjee.
284. Observation of plasma steady state in the power off phase of high power short pulse X-band microwave discharge, Proceedings of the 21st National Symposium on Plasma Science and Technology, pp 56, Malaviya National Institute of Technology, Jaipur, India, December 19-22, 2006, Sudeep Bhattacharjee and Indranuj Dey.
285. Traffic phenomena in biology: from molecular motors to organisms, (Plenary lecture delivered by D. Chowdhury), Proc. of the international conference Traffic and Granular Flow 05, (Berlin, October 2005) eds. A. Schadschneider, T. Poschel, R. Kuhne, M. Schreckenberg and D.E. Wolf (Springer, 2006), D. Chowdhury, a. Schadschneider and K. Nishinari.
286. Critical behaviour of random fibers with mixed weibull distribution, Physical Review E, 75, 2007, 011109, Uma Divakaran and Amit Dutta.
287. Effect of Discontinuity in threshold distribution on the critical behaviour of a random fiber model.. Physical Review E, 75, 2007, 011117, Uma Divakaran and Amit Dutta.
288. Effect of long-range connections on an infinite randomness fixed point associated with the quantum phase transitions in a transverse Ising model, Physical Review B, 75, 2007, 052405, Amit Dutta and R. Loganayagam.
289. Hybridization of 4f states in heavy-fermion compounds YbRh₂Si₂ and YbIr₂Si₂, S. L. Molodtsov, S. Danzenbacher, Yu. Kucherenko, C. Laubschat, D. V. Vyalikh, Z. Hossain, C. Geibel, X. J. Zhou, W. L. Yang, N. Mannella, Z. Hussain, Z.-X. Shen, M. Shi, L. Patthey, Journal of Magnetism and Magnetic Materials, Vol. 310, No. 2, Suppl. Part 1, March 2007, p-443-445. (Proceeding ICM06)
290. Low- Temperature properties of the heavy fermion system YbIr₂Si₂ , Z.Hossain, C. Geibel, T. Radu, Y. Tokiwa, F. Weickert, C. Krellner, H. Jeevan, P. Gegenwart, F. Steglich, Physica B: Condensed Matter, Vol. 378-380, May 01, 2006, p 74-75. (Proceedings: SCES05)

291. Crossover from divalent to valence fluctuating state of Eu in $\text{EuCu}_2(\text{Ge}_{1-x}\text{Si}_x)_2$ probed by $^{63,65}\text{Cu}$ -NMR, M. Baenitz, A. A. Gippius, A. K. Rajarajan, E. N. Morozova, Z. Hossain, C. Geibel, F. Steglich, *Physica B*, Vol. 378-380, 1 May 2006, P-683-5 (Proceedings: SCES05)
292. Magnetisation dynamics of YbIr_2Si_2 , A. Hiess, O. Stockert, M. M. Koza, Z. Hossain, C. Geibel, *Physica B: Condensed Matter*, Vol. 378-380, May 01, 2006, P-748-749 (Proceedings: SCES05)
293. Low-temperature high-field magnetization of YbRh_2Si_2 and YbIr_2Si_2 under hydrostatic pressure, Y. Tokiwa, P. Gegenwart, Z. Hossain, J. Ferstl, G. Sparn, C. Geibel, F. Steglich, *Physica B: Condensed Matter*, Vol. 378-380, May 01, 2006, P- 746-747 (Proceedings: SCES 05)
294. Temperature and pressure-induced valence transition in EuCo_2Ge_2 , G. Dionicio, H. Wilhelm, Z. Hossain, C. Geibel, *Physica B: Condensed Matter*, Vol. 378-380, May 01, 2006, p-724-725 (Proceedings: SCES 05)
295. Angular power spectrum of CMB anisotropy from WMAP, Tarun Souradeep, Rajib Saha, Pankaj Jain, *New Astron. Rev.* 50, 854-860 (2006)
296. Proton electromagnetic form factors at large momentum transfer, P. Jain, S. Mitra,, *Pramana* 66, 703-708 (2006)
297. Organized an International workshop on the Physics of Mesoscopic and Disordered Systems (Mesodis) December 04-08, 2006 (R. Prasad)
298. Recovery of intrinsic fluorescence of tissue mimicking model media and human breast tissues form spatially solved fluorescence and simultaneous evaluation of optical transport parameters *Proc. SPIE* Vol. 6091 p. 12-21, *Optical Biopsy VI*, (Feb 2006), V.L.N. Sridhar Raja, Sharad Gupta, Asima Pradhan.
299. Depth Resolved Fluorescence Measurements from Tissue Mimicking Model Media-A Spatially Resolved Fluorescence Technique *National Laser Symposium*, held at Vellore, Jan.2006, V.L.N. Sridhar Raja, Kalpana Mandal and Asima Pradhan.
300. A study of the Dependence of image quality on Refractive index of scatterer in polarimetric imaging through Turbid Media *National Laser Symposium*, held at Vellore, Jan.2006, Prashant Shukla, R. Sumathi, Sangeeta Chakrabarti and Asima Pradhan.
301. Dependence of image quality of state of polarization in polydisperse turbid media *Photonics 2006*, Prashant Shukla, Yashasvi Purwar, Asima Pradhan.
302. Spatially resolved fluorescence technique for depth resolved intrinsic Fluorescence measurements from two layered phantom *National Laser Symposium*, 2006, Rohit b. Patel, M. Anil Kumar, Prashant Shukla and Asima Pradhan.

303. Monitoring Biochemical Changes in Normal and Cancerous Cervical Tissues Using Intrinsic Fluorescence, National Laser Symposium, 2006, Md. Ejaz A Lodhi, Prashant Shukla, Anjali Saini, Meena Pal, Monika Mishra Nidhi Agarwal, Asha Agarwal and Asima Pradhan.
304. Recent developments in Rayleigh Benard Convection, in the Proceedings of the National Conference on Nonlinear Systems and Dynamcis-2006 (Chennai), Ed. M. Lakshmanan, R. Sahadevan, p. 137, 2006, M. K. Verma.
305. Energy Fluxes and Shell-to-shell Transfers in MHD Turbulence, in Lecture Notes in Computational Science and Engineering, proceedings of the Cyprus International Symposium on complex Effects in Large Eddy Simulations (CY-LES 2005), 2006, D. Carati, O. Debliqy, B. Knaepen, B. Teaca, M. K. Verma.
306. Energy Fluxes and Shell-to Shell Transfers in Forced Magnetohydrodynamic Turbulence, to appear in the Proceedings of MHD Summer 2005, Brussels, 2005, D. Carati, O. Debliqy, B. Knaepen, B. Teaca, M. K. Verma.
307. Mode-to-mode energy transfers and Patters in Convection, in the Proceedings of National Conference on Nonlinear Systems and Dynamics-2005 (Aligarh), M. K. Verma, K. Kumar, B. Kamble.
308. Negative refractive index of metamaterials at optical frequencies., Proc. MRS fall Meeting 2006, Symposium R (27th to 30th Nov. 2006, Boston) S. A. Ramakrishna, and S.Chakrabarti
309. Synthesis, Photophysical and Electroluminescent Properties of Arylenevinylenes-co pyrrolenevinylenes Derived from Divinylaryl Bridged Bispyrroles, *Macromolecules*, 40, 2657-2665, 2007, Anand K. Biswas, Ashish, A. K. Tripathi, Y.N. Mohapatra, and A. Ajayaghosh.
310. Trapping phenomena in intrinsic hydrogenated amorphous silicon like materials studied using current transient spectroscopies, *Journal of Non-Crystalline Solids* 352,1130-1133, 2006, Vibha Tripathi, Y.N. Mohapatra , P. Roca i Cabarrocas.
311. Electrical Characterization of Solution Processed MEHPPV/CNPPV Hetrostructure, 9th Asian Symposium on Information Display, New Delhi, 2006, pp219, D.C. Tripathi, D.K.Sinha, C.K.Suman and Y.N.Mohapatra.
312. Dielectric Properties of sol-gel-derived calcium copper titanate and calcium barium copper titanate thin films, *Defence Sceicne Journal*, 57,55, 2007, A. Dixit, D. Maurya, D.P. Singh, D.C. Agarwal and Y.N. Mohapatra.
313. A Laser heated pedestal growth of crystalline LiNbO₃ crystal directly from the congruent mixture of Li₂CO₃ and Nb₂O₅, Sasmita Kumari Patro, Satyendra Singh Thakur, Pradeep Kumar, Bansi Lal and Joseph John, Proceedings of Sixth DAE-BRNS National Laser Symposium (NLS-6), p82-83, December 5-8, 2006 (Raja Ramanna Center for Advanced Technology, Indore, India).

314. Laser heated pedestal growth of the organic optical material 3-methoxy 4-hydroxy benzaldehyde, Shivani Singh and Bansilal, Proceedings of Sixth DAE-BRNS National Laser Symposium (NLS-6), p80-81, December 5-8, 2006 (Raja Ramanna Center for Advanced Technology, Indore, India).
315. Synthesis of the Nano-scaled Terbium Aluminium Garnet for Photonic Devices, Humyra Shabir and Bansilal, Proceedings International Workshop on the Physics of Mesoscopic and Disordered Materials, p135-6, 04-08 December, 2006 (Department of Physics, Indian Institute of Technology Kanpur, India).
316. Laser Heated Pedestal Growth of Organic Photonic Materials, Pradeep Kumar, Shivani Singh and Bansilal, Proceedings International Conference on Lasers and Nanomaterials, PL-10, November 30-December 2, 2006 (Department of Physics, University of Calcutta, Kolkata, India)

CONFERENCES ATTENDED OUTSIDE IIT KANPUR

1. 3rd AIAA Flow Control Conference, San Francisco, California, June 2006, R.K. Sullerey.
2. 30th Indian Social Science Congress, December 26-31, 2006, Alagappa Chittier Research Center, Karaikudi, TN; Chairman : of a Session; Presented: a paper, K. Ghosh.
3. Workshop on Science Education, Homi Bhabha Center for Science Education, TIFR, Mumbai, Mar 22-24, 2007, Chairman : of a Session; presented an Invited paper, K. Ghosh.
4. Session Chairman for Helicopter Development at International Conference and Seminar during Aero India-2007, Bangalore, Feb. 2007, C. Venkatesan.
5. Organized and chaired the session on Asymptotic Methods in Boundary and Shear Layers at the International Conf. Boundary and Interior Layers, BAIL-2006 held at Univ. of Goettingen, Germany July 2006, Tapan K. Sengupta.
6. High-accuracy high Performance Computing- Current status and future directions: Invited talk as a panelist at International HPC-Users' Conference, IISc Bangalore, 2 March, 2007, Tapan K. Sengupta.
7. 7th World Congress on Computational Mechanics, WCCM06, Hyatt Regency Century Plaza Hotel, Los Angeles, California, July 16-22, (2006), Sanjay Mittal.
8. Indo-German Winter Academy, Digha December 10-13 (2006), Sanjay Mittal.
9. Aerospace Technologists Meet February 1-2, IIT Madras, Chennai (2007), Sanjay Mittal.

10. International High Performance Computing (HPC) Users Conference on Leadership Computing for Science and Industry 28 February -2 March, IIT Delhi and IISC Bangalore (2007), Sanjay Mittal.
11. 14th International Conference on Finite Elements in Flow Problems Santa Fe, New Mexico USA March 26-28 (2007), Sanjay Mittal.
12. International Conference on Computational Methods (ICCM07) Hiroshima Japan, 406 Apr (2007), Sanjay Mittal.
13. AIAA Atmospheric Flight Mechanics Conference and Exhibit, Keystone, Colorado, 21st - 24th Aug.2006, Speaker, S.K. Gupta
14. Workshop on Colloids and Materials Chemistry, Regional Research Laboratory (RRL), Bhubaneshwar, January, 2007, R. Bandyopadhyaya.
15. First Indo-UK Nanotechnology Conference, British Council and S. N. Bose National Centre for Basic Sciences, Calcutta, November, 2006, R. Bandyopadhyaya.
16. Nanotechnology Workshop, IIT Madras, October, 2006, R. Bandyopadhyaya.
17. ODH of Propane over several V₂O₅/TiO₂-SiO₂ and V₂O₅/TiO₂ Catalysts: Understanding the Structure-Reactivity Relationship AICHE 2006 Annual Meeting, San Francisco, Nov-2006, D. Shee and G. Deo.
18. Structure-activity relationships in vanadia-ceria catalysts during ethane oxidation to ethylene by operando Raman-GC analyses Second International Congress on Operando Spectroscopy, Toledo, Spain, April-2006, M. V. Martínez-Huerta, G. Deo, J.L.G. Fierro, I. E. Wachs, M. A. Bñares.
19. Transesterification, modeling and simulation of batch kinetics of non-edible vegetable oils for biodiesel production. Annual AIChE meeting, San Francisco, USA. November, 2006, S. Garg.
20. Presented an invited paper in Conference on Assembly, Organization and Propulsion in Complex Systems, 22nd-24th February, 2007. Indian Institute of Technology, Madras, A. Ghatak.
21. National Conference on Latest Developments in Oil and Gas Sectors, Institution of Engineers (India), Delhi State Chapter, Sept. 2006. Delivered an Invited Sir P.C. Roy Memorial Lecture on Manpower Needs of Oil and Gas Industry, J.P. Gupta.
22. Engineers' Day Symposium, Institution of Engineers (India) Qatar Chapter, Doha, Qatar, Sept. 15, 2006. Delivered an invited talk on 'Role of Engineers in Natural Disaster Mitigation and Management', J.P. Gupta.
23. International Workshop on Dangerous Goods Management and Emergency Response, Taiwan, October 2006. Delivered a talk on Chemical Emergency Management - National Incident Management System, J.P. Gupta.

24. First Joint Symposium of Industry - Academy, Gyeongju, Korea, December 2006. Delivered an Invited talk on 'Inherently Safer Design - Concepts and Applications', J.P. Gupta.
25. Petrotech2007, January 15-19, 2007, New Delhi. Participated as an attendee, J.P. Gupta.
26. 56th Canadian Chemical Engineering Conference, Sherbrooke, Quebec, Canada, October, 2006. A paper titled Security Risk Assessment Techniques for Chemical Process Industries, authored by S. Bajpai and J. P. Gupta. (It was presented by my student Mr. S. Bajpai).
27. CAMURE-6 and ISMR-5 at NCL, Pune, 14th -17th Jan, 2007, Ashok Khanna.
28. 19th International Symposium on Chemical Reaction Engg., Potsdam, Germany, Sep 3-6, 2006, D. Kunzru.
29. Attended the Asian Society for Information Display (ASID) 2006 International Conference, New Delhi, Oct 8-12, 2006, S. Panda.
30. Attended the International Workshop on Micro/Nano Systems Technology for Bio-Implants and Bio Applications, Kolkata, Dec 28-30, 2006, S. Panda.
31. Invited to the Center of Excellence in Nanoelectronics, IIT Bombay, for exploring collaborative work, March 5, 2007, S. Panda.
32. IIT-K Reach symposium 2007, Poster presented, V. Shankar.
33. Self-organized Large Area Meso-patterning of Polymers, BRNS-DAE Theme Meeting on Self-assembly Routes for Nanotech Materials, BARC, Mumbai, April 2006, A. Sharma.
34. Surface instability of thin films, International Workshop on Wave Dynamics and Stability of Thin Film Flow Systems, IIT Madras, Chennai, September 2006, A. Sharma.
35. Fabrication by Elastic Contact Lithography, RPG Life Science Professor M M Sharma Medal and CHEMCON Distinguished Lecture, CHEMCON, Annual Indian Chemical Engineering Congress, Ankleshwar, December 2006, A. Sharma.
36. Soft patterning for MEMS structures, International workshop on MEMS and Micro/Nano Systems Technology, Kolkata, December 2006, A. Sharma.
37. Self-organized patterning by Elastic Contact Lithography, Annual AIChE Meeting, Alpha Chi Sigma Symposium honoring Darsh Wasan, San Francisco, November 2006, A. Sharma.
38. Self-organized patterning of soft solids, National Workshop on Nanomaterials and Nanotechnology, University of Lucknow (Materials Research Society of India), Lucknow, March 2007, A. Sharma.
39. Self-organized materials and interfaces, Recent Developments in Nanomaterials, Banaras Hindu University, March 2007, A. Sharma.

40. Self-organized manufacturing, National Review and Coordination Meeting on Nanoscience and Nanotechnology, Hyderabad, February 2007, A. Sharma.
41. IIT-K Reach Symposium 2007, Poster presented, J.K. Singh.
42. Attended 86th Annual Meeting of the Transportation Research Board, Washington D.C., USA. Presented a paper at the conference.
43. Attended 2nd National Frontiers of Engineering Symposium, New Delhi. Chaired the session on Transport, Chakraborty, P.
44. Combined Regional Workshop of WWTM and IHWTM in ARRPEIT, Shahid Raya Hotel, Bali, Indonesia, June 5-6, 2006, Chaired Session, S. Guha.
45. Annual Review Workshop of ARRPEIT II, AIT, Bangkok, Nov 5-7, 2006, Chaired WWTM Sessions, S. Guha.
46. International Conference on Civil Engineering in New Millennium, CENEM 2007, Jan 11-14, 2007, Bengal Engineering and Science University, Shibpur, Howrah, West Bengal, India. Invited Paper Presented and Chaired Session, S. Guha.
47. Attended 15th US National Congress of Theoretical and Applied Mechanics, Boulder, Colorado, USA, 25-30 June, 2006, Kumar Ashwini. [Contributed paper]
48. Attended 14th International Conference on Composite Engineering, Boulder, Colorado, USA, July 2-8, 2006, Kumar Ashwini. [Invited paper]
49. Attended 2nd International Congress on Computational Mechanics and Simulation, IIT Guwahati, India, 8-10 December, 2006, Kumar Ashwini. [Keynote speaker, Session chairman]
50. Attended Map World Forum 2007, Hyderabad, 24-28 January 2007, Panelist, invited speaker and presented research paper, Lohani, B.
51. Attended ISPRS International Symposium on Geospatial Databases for sustainable development, Goa, 27-30 September 2006, Presented research paper, Lohani B.
52. Attended ISPRS Commission VI symposium, 27-30 June 2007, Tokyo, Presented a research paper, Lohani B.
53. CATCON software competition, 27-30 June 2007, Tokyo, Participated in software competition with Limulator, , Lohani, B.
54. Joint Asia Oceania Geosciences Society (AOGS) 3rd meeting 10-14 July 2006, Suntec Singapore International Convention & Exhibition Centre, Singapore, Malik, J.N.
55. 100th Anniversary 1906 San Francisco Earthquake conference at San Francisco, April 18-22, 2006, Malik, J.N.
56. Attended 100th Anniversary Earthquake Conference Commemorating the 1906 San Francisco Earthquake during 18-22, 2006 at San Francisco, USA

- contributing paper entitled Implications of the 2004 Great Sumatra Earthquake and Tsunami for Risk Reduction in India, Jain S. K.
57. Attended First European Conference on Earthquake Engineering and Seismology during September 3-8, 2006 in Geneva, Switzerland, Jain S. K.
 58. Attend meeting Board of Directors of International Association for Earthquake Engineering, Jain S. K.
 59. Attend Editorial Board Meeting of the journal Earthquake Engineering and Structural Dynamics' Wiley. , Jain S. K.
 60. World Seismic Safety Initiative (WSSI) during 3-4 December in Singapore for attending Annual meeting of the Board of Directors, Jain S. K.
 61. International Disaster Management Symposium :: Culture of Prevention, 18 January 2007, Kobe, JAPAN, Murty, C.V.R.
 62. 8th US National Conference on Earthquake Engineering, 19-21 April 2006, San Francisco, USA, , Murty, C.V.R.
 63. 13th World Conference on Earthquake Engineering, 1-6 August 2006, Vancouver, CANADA, Murty, C.V.R.
 64. 3rd Indo-German Workshop and Theme Meeting on Seismic Safety of Structures, Risk Assessment and Disaster Mitigation, 12-13 March 2007, BARC, Bombay, Murty, C.V.R.
 65. International Roundtable on Lessons from Natural Disasters, Policy Issues and Mitigation Strategies, 8-12 January 2007, Vellore, India, Murty, C.V.R.
 66. Engineers's Day Celebration, 14 September 2006, Institution of Engineers (India), Indore Chapter, Murty, C.V.R.
 67. Indo-US National Frontiers of Engineering Symposium, 1-3 April 2006, Agra, India, Murty, C.V.R.
 68. International Conference on 'Deltas: Depositional systems and stratigraphic development, Brunei Darussalam, January 13-18, 2006 (Invited lecture), Sinha R.
 69. Fluvial conference on IGCP518 and IAG Working Group on Large Rivers. Shanghai and Nanjing, 9-16, October, 2006 (Invited lecture) , Sinha R.
 70. International conference on 'Changing Scenario in Paleobotany and allied subjects', Birbal Sahni Institute of Paleobotany Lucknow, November 15-17, 2006, Sinha R. (Keynote lecture)
 71. American Geophysical Union Fall Meeting, San Francisco, December 11-15, 2006, contributed paper, Dey, S. and S. N. Tripathi, Aerosol and cloud forcing in the Indo-Gangetic plain.
 72. American Geophysical Union Fall Meeting, San Francisco, December 11-15, 2006, contributed paper, Tripathi, S. N., Srivastava, A. and Dey, S., Surface and Aircraft Measurements of Aerosol Black Carbon at a Typical Location in Gangetic Basin, Northern India.

73. Formal Methods Update 2006, IIT Guwahati, July 2006, delivered two talks on Quantitative and Stochastic Games, Anil Seth.
74. ICTP-ITU-URSI School on Wireless Networking for Scientific Applications in Developing Countries, February 20-21, 2007, ICTP, Trieste, Italy, Bhaskaran Raman.
75. Wireless Systems: Advanced Research and Development (WISARD 2007), a workshop in COMSWARE 2007, January 7-8, 2007, Bangalore, India, Bhaskaran Raman.
76. The First ACM International Workshop on Wireless Network Testbeds, Experimental evaluation and Characterization (WiNTECH 2006), A MOBICOM 2006 Workshop, September 2006, Los Angeles, USA, Bhaskaran Raman.
77. 12th Annual International Conference on Mobile Computing and Networking (MOBICOM), September 2006, Los Angeles, USA, Bhaskaran Raman.
78. 25th Annual Conference on Computer Communications (IEEE INFOCOM), Barcelona, Spain, April 2006, Bhaskaran Raman.
79. 2nd International Conference on Global E-Security (ICGeS 2006), April 2006, London, UK, Dheeraj Sanghi.
80. IPv6 Global summit, April 2006, Bangalore, Dheeraj Sanghi.
81. International Conference on Advanced Technologies and Electronic TRnsactions, Jul. 2006, Kathmandu, Nepal, Dheeraj Sanghi.
82. NASSCOM Annual HR Summit, July 2006, Chennai, Dheeraj Sanghi.
83. 8th International Symposium on Systems and Information Security (SSI 2006), November 2006, Sao Paulo, Brazil, Dheeraj Sanghi.
84. 12th Asia Pacific Software Engineering Conference, December 2006, Bangalore, Dheeraj Sanghi.
85. Conference on Computational Complexity 2006, Prague.
86. SPIE 'Defense and Security Symposium', Florida, USA, 2006, Phalguni Gupta.
87. 23rd International Biometric Conference, Montreal, Canada, 2006, Phalguni Gupta.
88. International Conference on Distributed Computing and Networking (ICDCN), Guwahati, India, December 2006, Phalguni Gupta.
89. International Conference on Computing: Theory and Applications (ICCTA), Kolkata, India, January 2007, Phalguni Gupta.
90. The 31st International Symposium on Mathematical Foundations of Computer Science. Presented a contributed lecture, Piyush Kurur.
91. The 2006 International Conference on Artificial Intelligence, Las Vegas, Nevada, USA, June 26-29, 2006, R. M. K. Sinha.

92. The 2006 International Conference on Machine Learning; Models, Technologies and Applications, Las Vegas, Nevada, USA, June 26-29, 2006, R. M. K. Sinha.
93. International Workshop on Internationalization, World Wide Web Consortium, R. M. K. Sinha.
94. Invited Panelist at Symposium on Modeling and Shallow Parsing of Indian Languages (MSPIL-06), IIT Bombay on April 2-4, 2006, presented Invited paper on 'Machine Translation of Hinglish', R. M. K. Sinha.
95. Intel Workshop on Multicore curriculum, May 2006, Portland, Oregon, Sanjeev Kumar Aggarwal.
96. Cluster and Grid Computing, May 2006, Singapore, Sanjeev Kumar Aggarwal.
97. Conference on use of Grids in Health care, August 2006, Delhi, Sanjeev Kumar Aggarwal.
98. Intel Multicore Development Workshop, September 2006, Jaipur, Sanjeev Kumar Aggarwal.
99. Intel Developers Forum, October 2006, Bangalore, Sanjeev Kumar Aggarwal.
100. Intel Asia Academic Forum, November 2006, Malaysia, Sanjeev Kumar Aggarwal.
101. Asia Pacific Software Engineering Conference, December 2006, Bangalore, Sanjeev Kumar Aggarwal.
102. TRDDC Silver Jubilee Research Workshop, December 2006, Pune, Sanjeev Kumar Aggarwal.
103. High Performance Computing, December 2006, Bangalore, Sanjeev Kumar Aggarwal.
104. Microsoft Annual Research Seminar Techvista, January 2007, Bangalore, Sanjeev Kumar Aggarwal.
105. High Performance Computing USers Conference, February 2007, Delhi, Sanjeev Kumar Aggarwal.
106. European Symposium on Algorithms (ESA), September 11-15, Zurich, Switzerland, paper presentation, Sumit Ganguli.
107. ACM Symposium on Principles of Database Systems (PODS), June 26-28, Chicago, USA, paper presentation, Sumit Ganguli.
108. 12th International computing and combinatorics Conference (COCOON 2006), August 15-18, 2006, Taipei, Taiwan (Republic of China), paper presentation, Shashank K. Mehta.
109. 17th International Symposium on Algorithms and Computation (ISSAC 2006), December 18-20, 2006, Kolkata, paper presentation, Shashank K. Mehta.
110. Sixth Working IEEE/IFIP Conference on Software Architecture, WICSA 2007, Mumbai, Jan 2007, a key note address on A Knowledge Management Perspective of Software Architecture, Prabhakar T.V. .

111. Conference Mumbai February, 2007, invited talk on The Management of Architecture Knowledge IT Enterprise Architecture Practitioners, Prabhakar T.V.
112. 9th Asian Symposium on Information Display (ASID), New Delhi, India, 11th October 2006, Paper presentation, P. K. Kalra.
113. Symposium on Computational Neuroscience and Imaging, Lucknow, India, 17th -20th December, 2006, Paper presentation, P. K. Kalra.
114. Elitex-2007, New Delhi, India, January, 2007, Poster Presentation, P. K. Kalra.
115. Twentieth International Joint Conference on Artificial Intelligence (IJCAI - 07), International Institute of Information Technology, Hyderabad, India, 6th - 12th January 2007, Workshop Lectures, P. K. Kalra.
116. International Conference on Wireless Sensor Networks (WCSN), Indian Institute of Information Technology, Allahabad, India, December 2007, P. K. Kalra.
117. International Conference on Neural Biology and Neural Informatics, (NBNI-2006), Kyoto, Japan, July 23-24, 2006, Paper presentation, P. K. Kalra.
118. International Conference on Advanced Power System Operation Control and Management (APSCOM-2006), Hong Kong, 30th October - 2nd November, 2006 (chaired a session and presented paper), S. C. Srivastava.
119. 14th National Power Systems Conference (NPSC), IIT Roorkee, 27-30 December, 2006. (delivered a key note lecture) , S. C. Srivastava.
120. Chaired the technical session on Reluctance and Special Drives in IEEE International Conference on Industrial Technology (ICIT 2006), Dec. 15-17, 2006, Mumbai, S. P. Das.
121. IEEE Power India Conference Delhi, April 10-12, 2006, S.N.Singh (Session Chairman)
122. International Conference on Energy, Efficiency and Environment, UPTU Lucknow, June 10-11, 2006, S.N. Singh (Organizing committee member, Technical Committee Chairman, Session Chairman)
123. IEEE Power Engineering Society, General Meeting, Montreal, Canada, June 18-22, 2006, S.N.Singh (Panelist, paper presenter)
124. National Seminar on Voltage Stability (SVC'06), Arulmigu Kalasalingam College of Engineering, Tamil Nadu, October 13-14, 2006, S.N. Singh. (Keynote Speaker)
125. Workshop on Laboratory Teaching in Electrical Engineering (LTEE-06), KNIT Sultanpur, India, November 24-26, 2006, S.N. Singh (Guest of Honor, Valedictory session).
126. AICTE Sponsored National Conference on Advances in Electrical Engineering, MITS Gwalior, Indian, November 29-30, 2006, S.N. Singh (Keynote Speaker, Inaugural Session)

127. Presented a contributed paper entitled A Utility Friendly High Power Induction Motor Drive with Direct Torque and Flux Control, in IEEE International Conference on Industrial Technology (ICIT 2006), Mumbai, 15-17 Dec. 2006, pp. 1983-1988, S. P. Das
128. IEEE SoSE Conference, San Antonio, Texas, USA, April, 2007, presenting contributed paper, L. Behera.
129. IEEE Int. Symposium on Intelligent Control (ISIC), Munich, Germany, 2006, presenting contributed paper, L. Behera.
130. International Conference on Information Technology IEEE-ICIT 2006, December 15-17, 2006, Mumbai, India. Chaired two sessions, P. Sensarma.
131. Conference on Advances in Control and Optimization of Dynamic Systems. IISc Bangalore, January 2007. Presented contributed paper, chaired session, R. Potluri.
132. 2006 IEEE 8th International Conference on Properties and Applications of Dielectric Materials, Bali, Indonesia: Presented two papers, Chaired a session, N. Gupta.
133. National Power Systems Conference (NPSC 06), IIT Rorkee, Dec 2006: Presented a paper, Chaired a session, N. Gupta.
134. 2006 International Conference on Information Display, Organised by Asian Society for Information Display (ASID) in Oct. 2006, in New Delhi, S. Gupta.
135. 2006 IEEE Information Theory Workshop held at Chengdu, China, R. K. Bansal.
136. International Joint Conference on Artificial Intelligence, Hyderabad for presenting contributed paper, S. Umesh.
137. 12th National Conference on Communications, NCC 2006 at IIT Delhi, A. K. Chaturvedi.
138. IEEE International Conference on Communications, ICC 2006 at Istanbul, A. K. Chaturvedi.
139. WINS, Goa, April 2006. Invited speaker, A. K. Chaturvedi.
140. 12th National Conference on Communications, NCC 2006 at IIT Delhi, A. Banerjee.
141. IEEE Wireless Communications and Networking Conference (WCNC), Hong Kong, March 2007, A. Banerjee.
142. The 2006 International Conference on Artificial Intelligence, Las Vegas, Nevada, USA, June 26-29, 2006, R. M. K. Sinha.
143. The 2006 International Conference on Machine Learning; Models, Technologies and Applications, Las Vegas, Nevada, USA, June 26-29, 2006, R. M. K. Sinha.
144. Invited Panelist at Symposium on Modeling and Shallow Parsing of Indian Languages (MSPIL-06), IIT Bombay on April 2-4, 2006. Presented Invited paper on 'Machine Translation of Hinglish', R. M. K. Sinha.

145. WISARD, Bangalore, Jan 2007. Panelist in discussion, K. Chebrolu.
146. WINS, Goa, April 2006. Invited participant, K. Chebrolu.
147. The 9th Asian Symposium on Information Display at New Delhi from 8th to 12th October, 2006. Was member of program committee; Chaired two tutorial sessions (by Prof. Harm Tolner and Prof. Y.N. Mohapatra); Made a poster presentation.
148. Made a poster presentation and chaired two tutorial(Prof. Harm Tolner and Prof. Y.N. Mohapatra) Sessions in the 9th Asian Symposium on Information Display at New Delhi from 8th to 12th Oct 2006, S. K. Iyer.
149. A Coordinated Approach to Shipment Planning and Scheduling Decisions in Supply Chains with Multiple Supply Modes, 10th Annual International Conference of the Society of Operations Management (SOM) held from December 21-23, 2006 at Indian Institute of Management Ahmedabad, India, P. Mehta.
150. International Corporate Responsibility 2006, HongKong, September 22-24, R. Sarkar.
151. Green Competitiveness for Sustainable Development, IMT, Ghaziabad, October, 2006, R. Sarkar.
152. Ninth Biennial Conference of the International Society for Ecological Economics, Delhi, Dec15-19, 2006, R. Sarkar.
153. Conference on Sustainable Energy and Environment : Technology and Policy Options, Bangkok, 21-23 November 2006, Anoop Singh.
154. IAEE International Conference, (7-10 June, 2006), Potsdam/Berlin, Germany, Anoop Singh.
155. Conference on Better Air Quality, Indonesia, 13-15 December, 2006, Anoop Singh.
156. INFRATRAN Autumn School Trends in Infrastructure Modeling and Policy to be organized by TU Berlin's WIP from 2 - 7 October 2006, Anoop Singh.
157. Knowledge Management Strategies for Continuous Process Industries. Institute of Oil & Petrochemical Management, Mamudabad, Iran, May 2006, J. Chatterjee.
158. Marketing of Services, Mazandran University of Science & Technology, Iran, May 2006, J. Chatterjee.
159. Managing Innovation for Success in a Manufacturing DBE. National Knowledge Commission and PHDCCI Conference on Innovation & Faster Growth, PHDCCI, Delhi-Lucknow, India, November 2006, J. Chatterjee.
160. Developing a Village Knowledge Centres Network. Panchayati Raj Seminar, Barhalunge, Gorakhpur, India, December 2006, J. Chatterjee and M. D. Singh.

161. A Strategic Approach to User Participation in Agricultural Knowledge Management - the Agropedia Model'. KM-NAIP Seminar, Indian Council for Agricultural Research, Delhi, India January 2007, J. Chatterjee and M. D. Singh.
162. Global Marketing Leadership. National Seminar on Young Leaders in the Making - Expectations and Imperatives, Lucknow, March 2007, J. Chatterjee.
163. OPAALS Workshop, London School of Economics, U.K., June 2006, J. Chatterjee.
164. Open Knowledge Space, OPAALS, Workshop, Tampere University of Technology, Finland, October 2006, J. Chatterjee.
165. Language, Semantics and SBVR Workshop, OPAALS, University of Kassel, Germany, March 2007, J. Chatterjee.
166. Labour standadrs and globalisation. 23rd March 2007, Dept. of HSS, IIT Bombay, Rahul Varman.
167. Institutional Aspects in Artisanal Clusters. Kraft Tech: National seminar on the 'Confluence of technology with handicrafts', 31st March 2007, Design Programme, IIT Kanpur, Rahul Varman.
168. Socio-technical frame work of Business ecosystems for competitiveness of Craft clusters' : National seminar on the 'Confluence of technology with handicrafts', 31st March 2007, Design Programme, IIT Kanpur, J. Chatterjee.
169. **Ubiquitous Middleman Syndrome; Trust is the key** : National seminar on the 'Confluence of technology with handicrafts', 31st March 2007, Design Programme, IIT Kanpur, B. V. Phani.
170. Winter Research Conference on Microstructure of International Financial Markets, Indian School of Business, December 17-19, 2006, B. V. Phani.
171. ICQRIT 2006 New Delhi Dec02-04,2006, Ashok K Mittal.
172. ORSI 2006 Kolkatta Jan05-07, 2007, Ashok K Mittal.
173. National workshop on Marketing Intelligence VIT Vellore Feb 19-20, 2007, Ashok K Mittal.
174. Research and Relevance :LUMS Lahore Pakistan Jan 16-17, 2007, Ashok K Mittal.
175. RAOTA 2006 Delhi Oct27-28, 2006, Ashok K Mittal.
176. NCIITE Dayanand Girls College Kanpur Feb 26-27, 2007, Ashok K Mittal.
177. Brainstorming on UK India Collaboration to identify the barriers to the transfer of low Carbon energy technologies TERI New Delhi 13 Sept 2006, Ashok K Mittal.
178. Second National conference on Management Science and Practice IIT Madras March 9-11, 2007, Ashok K Mittal.
179. KCCQC -2006 BHEL Haridwar Oct 2006, Ashok K Mittal.
180. The 7th Asia Pacific Industrial Engineering and Management Systems Conference, Bangkok, 17-20 December 2006, Session Chair, Kripa Shanker.

181. Workshop on Immediate Energy Saving via Microwave Usage in Major Materials Technologies organized by National Academy of Engineering and Penn State University, University Park, USA (June 8-10, 2006) and presented an invited lecture on Microwave Sintering of W-Ni-Fe Alloys, A. Upadhyaya.
182. International Conference on Powder Metallurgy (PM2TEC2006) held at San Diego, CA, USA (June 18-21, 2006) and presented the contributed paper titled Sintering and Heat-Treatment Studies on SH737 and 4300 Steels, M. Das, S.K. Sinha and A. Upadhyaya.
183. Effect of Powder Characteristics and Processing Parameters on the Shrinkage behaviour of Copper Compacts, Powder Metallurgy World Congress (PM2006), 24-28 September, 2006, Busan, South Korea, B. Padmavathi and A. Upadhyaya.
184. Effect of Sintering Temperature on Grain Boundary Character Distribution in Pure Nickel, S.K. Sinha, Powder Metallurgy World Congress (PM2006), 24-28 September, 2006, Busan, South Korea, S. K. Sinha, P. P. Bhattacharjee, and A. Upadhyaya.
185. Processing and Characterization of Cr-Cu Alloys through Liquid Phase Sintering for Vacuum Circuit Breakers Powder Metallurgy World Congress (PM2006), 24-28 September, 2006, Busan, South Korea, K. S. Nalwa, S. K. Sinha, and A. Upadhyaya.
186. Minerals, Metals, Metallurgy, 6th International Trade Fair & Conference, 11-14 September, 2006, New Delhi, A. Upadhyaya.
187. Papers from Dr. Upadhyaya's group were presented in the 60th Annual Technical Meeting of the IIM, Jamshedpur, 15-16 November, 2006.
188. A Comparative Study of Deformation and Recrystallization Textures in P/M Processed Pure Ni and Ni-5 at.% W Alloy Substrate Tapes for Coated Superconductor Applications, 60th Annual Technical Meeting of the IIM, Jamshedpur, 15-16 November, 2006, P.P. Bhattacharjee, R.K. Ray, and A. Upadhyaya.
189. Optimization of Mechanical Properties of Low Alloy P/M Steel through the Control of Microstructure and Pore Morphology, 60th Annual Technical Meeting of the IIM, Jamshedpur, 15-16 November, 2006, S.K. Sinha and A. Upadhyaya.
190. Corrosion Behaviour of Sintered Aluminide Reinforced 434L Stainless Steel, 60th Annual Technical Meeting of the IIM, Jamshedpur, 15-16 November, 2006, G. Joshi, S. Balaji, and A. Upadhyaya.
191. Phase Evolution and Sinter-Bonding Mechanism of Ternary Boride (Fe,Mo,Cr,B) based Cermets Sintered at Various Temperatures, 60th Annual Technical Meeting of the IIM, Jamshedpur, 15-16 November, 2006, Jain, B. Palanisamy, and A. Upadhyaya.

192. Fabrication of Al-Si Alloy and 2024 Al Alloys by Sprayforming, 60th Annual Technical Meeting of the IIM, Jamshedpur, 15-16 November, 2006, S. Tandon, P. Dash, and A. Upadhyaya.
193. Corrosion Behaviour of Sintered Aluminide Reinforced 316L Stainless Steel, 60th Annual Technical Meeting of the IIM, Jamshedpur, 15-16 November, 2006, P. Vijay, S. Balaji, and A. Upadhyaya.
194. Effect of Heating Rate on the Sintering Response and Microstructural Evolution in Tungsten Heavy Alloys, National Workshop on Powder Metallurgy of Refractory and Hard Metals- Processing & Prospects (MPRM-2006), December 8-9, 2006 at Tiruchirappalli, Mondal and A. Upadhyaya.
195. Sinterbonding of Boride-Based Cermets on to Steel Substrate, International Conference on Recent Advances in Materials & Processing (RAMP2006) held between December 15-16, 2006 at Coimbatore, P. Barath and A. Upadhyaya.
196. Supersolidus Liquid Phase Sintering of Intermetallic Dispersed Stainless Steel Composites, International Conference on Recent Advances in Materials & Processing (RAMP2006) held between December 15-16, 2006 at Coimbatore, S. Balaji and A. Upadhyaya.
197. PTFE-Cu Composites through Mechanical Alloying, M. Ananthraman, International Conference on Recent Advances in Materials & Processing (RAMP2006) held between December 15-16, 2006 at Coimbatore, Upadhyaya, K.K. Kar.
198. Conference on Advances in Space Science and Technology (CASST'2007) held between January 29-31, 2007 at IISc Bangalore and presented a paper titled Materials Processing for Communication Satellites, E. R. Tagore, A. Upadhyaya, and A.V. Pathak.
199. Sprayforming of Al-Si and 2024 Al Alloys, International Conference Powder Metallurgy for Automotive & Engineering Industry PM-2007 and 33rd Annual Technical Meeting of PMAI held in Noida between 9-11 February 2007, S. Tandon, P. Dash, A. Upadhyaya.
200. P/M Processing of Cu-Pb Alloys for Bearing Applications, International Conference Powder Metallurgy for Automotive & Engineering Industry PM-2007 and 33rd Annual Technical Meeting of PMAI held in Noida between 9-11 February 2007, P. Dash and A. Upadhyaya.
201. Pressureless Sintering of MoSi₂-SiC Composites for Aerospace Applications, International Conference Powder Metallurgy for Automotive & Engineering Industry PM-2007 and 33rd Annual Technical Meeting of PMAI held in Noida between 9-11 February 2007, P. Vijay, A. Mondal, A. Upadhyaya.
202. Effect of YAG Addition on Electrochemical Response of Sintered Stainless Steels, International Conference Powder Metallurgy for Automotive & Engineering Industry PM-2007 and 33rd Annual Technical Meeting of PMAI

- held in Noida between 9-11 February 2007, S. Balaji, G. Joshi, and A. Upadhyaya.
203. Challenges in the Processing of Al-Alloys via P/M Route, International Conference Powder Metallurgy for Automotive & Engineering Industry PM-2007 and 33rd Annual Technical Meeting of PMAI held in Noida between 9-11 February 2007, Padmavathi, A. Upadhyaya.
 204. Activated Sintering of Stainless Steels, International Symposium on Advances in Stainless Steels (ISAS2007) held between April 9-11, 2007 at Chennai, A. Upadhyaya.
 205. Reactive Surface-Bonding of Boride based Cermets on Ferrous Alloys, International Symposium on Advances in Stainless Steels (ISAS2007) held between April 9-11, 2007 at Chennai, P. Barath and A. Upadhyaya.
 206. Sintering and Electrochemical Characterization of Aluminide Dispersed Stainless Steels, International Symposium on Advances in Stainless Steels (ISAS2007) held between April 9-11, 2007 at Chennai, S. Balaji and A. Upadhyaya.
 207. Investigation of Magnetic Behaviour of Mechanical Activation Derived Multiferroic BiFeO₃, Ashish Garg, Thota Harikishan, Brajesh Pandey, and Harish Chandra Verma, accepted for Oral Presentation at MRS Spring Meeting, San Francisco, 9-13 April 2007.
 208. Sol-gel Synthesis and Characterization of Multiferroic BiFeO₃-PbTiO₃ Thin Films, Soumya Kar, Anju Dixit, Ashish Garg, and D. C. Agrawal, accepted for Oral Presentation at MRS Spring Meeting, San Francisco, 9-13 April 2007.
 209. Organic Field Effect Transistor Using Sol-gel Processed Ferroelectric Gates, Sambit Pattnaik, Vijayraj Singh, Ashish Garg and Monica Katiyar, accepted for Poster Presentation at MRS Spring Meeting, San Francisco, 9-13 April 2007.
 210. Multiferroic Sm-doped BiFeO₃ Ceramics synthesized by Solid-State-Reaction Method, 4th International Conference and Exhibition on Emerging Solutions through Powder Metallurgy in Automotive and Emerging Industry, 9-11 February, New Delhi, India, Kanwar Singh Nalwa, Ashish Garg and Anish Upadhyaya.
 211. Synthesis and Characterization of Multiferroic BiFeO₃ Thin Films Prepared by Chemical Solution Deposition Method, XIVth National Seminar on Ferroelectrics Dielectrics & Workshop on Advances in Multifunctional Materials, 18-21 Dec 2006, IIT Kharagpur (India), Won Best Poster Award, Vijayraj Singh, Anju Dixit, and Ashish Garg.
 212. Multiferroic Bismuth Ferrite Synthesized by Mechanical Activation, XIVth National Seminar on Ferroelectrics Dielectrics & Workshop on Advances in Multifunctional Materials, 18-21 Dec 2006, IIT Kharagpur (India), T. Harikishan and Ashish Garg.

213. Characterization of Multiferroic BiFeO₃ Ceramics synthesized by Solid-State-Reaction Method, XIVth National Seminar on Ferroelectrics Dielectrics & Workshop on Advances in Multifunctional Materials, 18-21 Dec 2006, IIT Kharagpur (India), Won Best Poster Award, Kanwar Singh, Ashish Garg and Anish Upadhyaya.
214. Synthesis and Characterization of Solution Processed BiFeO₃-PbTiO₃ Thin Films, XIVth National Seminar on Ferroelectrics Dielectrics & Workshop on Advances in Multifunctional Materials, 18-21 Dec 2006, IIT Kharagpur (India), S. Kar, A. Dixit, A. Garg and D.C. Agrawal.
215. Influence of Milling Parameters on Dry Mechano-chemical Synthesis of Nanocrystalline Hydroxyapatite, 8th International Conference on Nanostructured Materials, August 20st-25th, 2006, Indian Institute of Science, Bangalore (India), T. Mondal, B.K. Mishra and Ashish Garg.
216. Novel Low Temperature Chemical Synthesis of Ferroelectric Bismuth Titanate Nanoparticles, 8th International Conference on Nanostructured Materials, August 20st-25th, 2006, Indian Institute of Science, Bangalore (India), P. Prakash, M.K. Roy, A. Garg and H.C. Verma.
217. Effect of Processing on the Electrochemical Behavior of Ni-Al₂O₃ Composites (ORAL), Eighth International Symposium on Advances in Electrochemical Science and Technology, 27-30 November 2006, Goa, S. Pal and R. Balasubramaniam
218. Studies on Corrosion Prevention of Rail Steels (POSTER), Eighth International Symposium on Advances in Electrochemical Science and Technology, 27-30 November 2006, Goa, Bijayani Panda and R. Balasubramaniam.
219. Corrosion of Rare Earth Based Magnetostrictive Alloys in Marine Environment (POSTER), Eighth International Symposium on Advances in Electrochemical Science and Technology, 27-30 November 2006, Goa, Deepika Sachdeva and R. Balasubramaniam.
220. Use of Scanning Electron Microscopy for Study of Degradation of Materials (Invited paper), National Conference on Advanced Analytical Techniques for Material Characterization, 27Nov-01Dec, DMSRDE, Kanpur, R Balasubramaniam.
221. Scientific Materials, Equipments and Techniques in Conservation: the Delhi Iron Pillar Example (Keynote Lecture), National Conference on Materials , Equipments and Techniques for Conservation of Cultural Property - Present , past and future, 14 -16 December, 2006, Regional Conservation Laboratory, Mysore, R Balasubramaniam.
222. The Story of Indian Wootz Steel (INVITED), International Conference on History of Indian Science and Technology, Benaras Hindu University, Varanasi, 23-26 January 2007, Varanasi R Balasubramaniam.

223. Guns of Mehrangarh (INVITED) International Conference on Conservation of Arms and Armour, Mehrangarh Fort, 28Feb-01Mar 2007, Jodhpur, R. Balasubramaniam and Ruth Rhynas Brown.
224. The Saga of Indian Cannons (PLENARY LECTURE), National Conference on History of Science, organized by National Commission for the History of Sciences, Indian National Science Academy, New Delhi, 26-28 March 2007. New Delhi, R Balasubramaniam.
225. Preliminary Investigation into Comparative Performance of Titanium based Coatings for Automotive Applications using Biodiesel Blend and Diesel, Proceedings of Internal Combustion Engines Division, Spring Technical Conference 2006, ICES 2006-1974, May 7-10, 2006, Aachen, German, Mritunjay Kumar Shukla, Avinash Kumar Agarwal, Ashish Garg.
226. A Detailed Comparative Study of Ferroelectric Lanthanide Doped Bismuth Titanate Films Prepared by Chemical Solution Deposition and Pulsed-Laser-Ablation, TMS Annual Meeting 2006, San Antonio (USA), 12-16 March 2006, Garg, X. Hu and Z.H. Barber.
227. Comparative Wear Performance of Titanium Based Coatings for Automotive Applications Using Exhaust Gas Recirculation, International Conference on Superhard Coatings, Ein-Gedi, Israel, 27Feb.-1 March 2006, Avinash Kumar Agarwal, Ashish Garg, Dhananjay Kumar Srivastava, and Mritunjay Kumar Shukla.
228. Catalogue and Technical Analysis of Forge Welded Cannons in Deccani Forts (INVITED), National Conference on History of Science, organized by National Commission for the History of Sciences, Indian National Science Academy, New Delhi, 26-28 March 2007. New Delhi, R. Balasubramaniam and S. Jaikishan.
229. R. Balasubramaniam and Shivprasad Khened, Rustless Wonder, One India One People, Volume 9/10, May 2006, pp. 25-38,
230. Spark Plasma sintering and characterisation of ZrO_2-ZrB_2 Nanoceramic composites at 8th International Conference on Nanostructured materials (NANO-06) at IISc, Bangalore, August, 2006, Bikramjit Basu.
231. Sintering, microstructure development and cell adhesion properties of bulk HAp-Ti and HAp-mullite bioceramic composites at the workshop on 'Biomaterials and Biomedical Devices' held at Central Glass and Ceramic Research Institute (CGCRI), Calcutta, India in December 12-13, 2006, Bikramjit Basu.

232. Does Spark plasma sintering always offer ceramics and ceramic composites with better properties? at the satellite Conference on Materials Behaviour: Far from Equilibrium (MBFE 2006) held at Bhabha Atomic Research Centre, Mumbai, India, during December 14-16, 2006, Bikramjit Basu.
233. Spark Plasma Sintered WC-ZrO₂ Nanocomposites: Microstructure and Mechanical Properties during 31st International Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, which will be held in Daytona Beach, Florida on January 21-26, 2007, Bikramjit Basu.
234. Synthesis, Phase Stability, Microstructure, Mechanical and In-Vitro Properties of HAp-Mullite Novel Composites for Biomedical Applications during 31st International Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, which will be held in Daytona Beach, Florida on January 21-26, 2007, Bikramjit Basu.
235. Hydroxyapatite-Alumina-High Density Polyethylene Composites for Biomedical Applications: Processing and Characterization during 31st International Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, which will be held in Daytona Beach, Florida on January 21-26, 2007, Bikramjit Basu.
236. Densification and Properties of TiB₂ with MoSi₂ Binder during 31st International Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, which will be held in Daytona Beach, Florida on January 21-26, 2007, Bikramjit Basu.
237. Correlation between Dihedral Angles at Triple Junctions and Grain Boundary Misorientation Angles in Polycrystals, National Conference on Electron Microscopy and XXXVIII Annual Meeting of Electron Microscope Society of India (EMSI), April 19-21, 2006 (awarded as the best student presentation in Materials Sciences), V. Rajinikanth, Veeranjaneyulu Daggubati and Sandeep Sangal
238. Grain Boundary Characterization of AISI 316L Stainless Steel using EBSD', National Conference on Electron Microscopy and XXXVIII Annual Meeting of Electron Microscope Society of India (EMSI), April 19-21, 2006, V. Rajinikanth, Veeranjaneyulu Daggubati and Sandeep Sangal
239. Asian Vehicle Emission Control Conference (AVECC)-2006, Jaipur, India, 20-22 September, 2006, Keynote Paper, B.P.Pundir.
240. Better Air Quality (BAQ) - 2006, CAI Asia, Yogyakarta, Indonesia, 11-15 December, 2006, Invited Paper, B.P.Pundir.
241. SAE Fuels and Emissions Conference, Capetown, South Africa, January, 23-25, 2007, Contributed Paper, B.P.Pundir.
242. Indo-US workshop on Sensors and Actuators for Bio-MEMS application, IIT-Kharagpur, December, 2006, Bishakh Bhattacharya.

243. Response of a hard Duffing oscillator to harmonic excitation - numerical and experimental investigation, an invited lecture in International conference on vibration problems, held at BESUS, February 1 -3, 2007, A.K. Mallik.
244. Optical Society of America annual meeting held at Rochester New York in October 2006, K. Muralidhar.
245. 33rd National and 3rd International Conference on Fluid Mechanics and Fluid Power, December 7-9, 2006, held at IIT Bombay, India, K. Muralidhar.
246. Eleventh Asian Congress of Fluid Mechanics (11ACFM), Kuala Lumpur, Malaysia, May 22-25, 2006, Invited Talk, Large-Eddy Simulation of Flows Concerning Impinging Jets and Bluff Body Wakes, G. Biswas.
247. Eleventh Asian Congress of Fluid Mechanics (11ACFM), Kuala Lumpur, Malaysia, May 22-25, 2006, Chaired a Session on Computational Fluid Mechanics and Flow Visualization, G. Biswas.
248. National Conference on CFD Applications in Power and Industry Sectors organized by the Corporate R&D of BHEL, Hyderabad, November 17-18, 2006, Invited Talk on Mathematical Modeling of Turbulence, G. Biswas.
249. Thirty third National and 3rd International Conference on Fluid Mechanics and Fluid Power, IIT Bombay, December 7-9, 2006, Contributed Paper, Numerical Study of Natural Convection in the Spallation Target Module of an Accelerator Driven Sub-Critical System, K. Arul Prakash, B. V. Rathish Kumar and G. Biswas
250. Thirty third National and 3rd International Conference on Fluid Mechanics and Fluid Power, paper number 1417, IIT Bombay, December 7-9, 2006, Contributed Paper, A Comparison of VOF and CLSVOF Method for Predicting Surface Tension Dominated Two-Phase Flows, G. Tomar , G. Biswas and A. Sharma.
251. Thirty third National and 3rd International Conference on Fluid Mechanics and Fluid Power, IIT Bombay, December 7-9, 2006, Contributed Paper, Large Eddy Simulation of Flow Past Square Cylinder with Fine Grid, M. K. Radle, E.G. Tulapurkara and G. Biswas.
252. Modeling of Free Surface Flows and Bubble Formation in Film Boiling, Invited Talk, National Workshop: CFD Approach on Fluid Flow, Heat and Mass Transfer, IIT Roorkee, April 12-13, 2007, G. Tomar and G. Biswas
253. Micro miniaturization - A Recent Trend, Guest lecture at Annamalai University, October 2006. J. Ramkumar.
254. Non Destructive Evaluation of Advance materials, National workshop on Advance materials, at PEC, Chandigarh, 11-22nd, December 2006, J.Ramkumar.
255. Developments in conductive polymers, Workshop on Advances in materials and material selection in Design, at HBTI Kanpur, March 10-11th, 2007, J.Ramkumar.

256. Development of IPMC, 2nd National workshop on Smart materials for design of intelligent systems and industrial applications, at IIT Kanpur 23-24th March, 2007, J. Ramkumar.
257. Titanium and its machinability, National workshop on machining and machinability of advanced materials (NWMMAM-2007) at CMERI Durgapur, March 29-30, 2007, J.Ramkumar.
258. 33rd National and 3rd International Conference on Fluid Mechanics and Fluid Power, IIT Bombay, Mumbai, December 7-9, 2006. Type of participations: Both as an author and chair of a session. A.K. Saha
259. Numerical Methods for Fluid Dynamics (ICFD 07), 9th International Conference, the University of Reading, U.K., 26-29th March, Contributed Paper. S. Sarkar
260. Session Chair and Organizer for SAE World Congress 2007, PFL-20: CI Engine Performance for Use with Alternative Fuels Session, to be held in Detroit, USA April 2007, A.K.Agarwal.
261. National Conference on Design, Dynamics and Manufacturing (NCDDM) 2007, Sant Longowal Institute of Engineering and Technology, Longowal - Dist Sangrur, Punjab, March 16-17, 2007, Delivered the Invited Lecture Modeling of Metal Forming Processes using Finite Element Method : Issues and Challenges, Chaired a Session Member of the Panel for Panel Discussion. Chief Guest at the Valedictory Function, P.M. Dixit.
262. NAMRC conference, May 2006, Milwaukee, USA, N.V.Reddy.
263. Second Japan-India Joint seminar on Micro/nano Manufacturing Science, December 2006, IIT Kanpur, N.V.Reddy
264. National Conference on Design, Dynamics and Manufacturing (NCDDM-2007) March 16-17, 2007, SLIET, Longowal, N.V.Reddy.
265. Nano-finishing Techniques and Pulsating Magnetic Abrasive Brush during International Conference on Machining Science and Technology-2006 (ICOMAST-2006) held at Melaka, Malaysia, 28th - 30th August, 2006, V.K.Jain.
266. Second International Conference on Computational Mechanics and Simulation, 8-10 December 2006, IIT Guwahati, India, S.Basu.
267. Joining Materials with Glass Fiber Reinforced Plastics- an Experimental Study, 19 Austrasian Biennial Conference on the Mechanics of Structures and Materials Nov. 29 to Dec., 2006, University of Canterbury, Chritchurch, New Zealand, Rajeev Kumar and Prashant Kumar.
268. First Mid-Year Meeting of the CRSI held at IIT Madras July 12 and 13, 2006 and presented a poster on Synthesis and Characterization of NHC-Stabilized Zinc aryloxide and Zinc Hydroxyaryloxide, G. Anantharaman and K. Elango.

269. First Mid-Year Meeting of the CRSI held at IIT Madras Feb 12 and 13, 2007 and presented a poster on Synthesis and Characterization of NHC-Stabilized Zinc aryloxyde and Zinc Hydroxyaryloxyde, K. Elango and G. Anantharaman.
270. 37th International Conference on Coordination Chemistry (37th ICC) at Capetown on August-2006. Oral Presentation on the topic Modulation of the Ru-Ru Single Bond by Axial Donors in Diruthenium Paddlewheel Complexes, J. K. Bera.
271. Indo-Japan Joint Workshop on New Frontiers of Molecular Spectroscopy, held in Kobe, Japan, September 24-26, 2006, A. Chandra.
272. Materials Modeling at Different Length Scales, held at BARC, Trombay, Mumbai, October 12-14, 2006, A. Chandra.
273. Theoretical Chemistry Symposium - 2006, held at Trichy, December 11-13, 2006, A. Chandra.
274. National Symposium on Computational Chemistry, held at Thiruvananthapuram, December 15, 2006, A. Chandra.
275. Symposium on Trends in Computational Materials Science, held in Bangalore, February 15-17, 2007, A. Chandra.
276. Structure and Dynamics of molecules & Clusters - 2007, held at Corbett National Park, February 23-25, 2007, A. Chandra.
277. HPC User Forum Conference, held in New Delhi, February 28-March 01, 2007, A. Chandra.
278. 37th ICC, Cape Town August 13-18th 2006. Lecture on August 17th 2006, V. Chandrasekhar.
279. International Conference in Emerging Trends in Chemical Sciences on the occasion of 150th anniversary of University of Mumbai. Mumbai. Jan 24th 2007, V. Chandrasekhar.
280. CRSI-RSC meeting. New Delhi. Feb 1 2007, V. Chandrasekhar.
281. IITK REACH Symposium, Parwanoo, Himachal Pradesh , March , V. Chandrasekhar.
282. Thermans 2006, 6-10 Feb 2006, Jaipur, Thermal, Structural and Electrical Studies of Nanostructured PZT Synthesized by Low Temperature Technique, Invited Oral, N. S. Gajbhiye.
283. Int. Conf. on Nanoscience and Technology 2006, 16-18 March, New Delhi, Characterization of Nanostructured PZT Prepared by Chemical Routes; N. S. Gajbhiye, P. K. Pandey, Lyci George and Abhishek Kumar,
284. Int. Conf. Nanoscience & Technology, March 16-18, 2006, New Delhi Synthesis Characterization & Magnetic Interactions of e-Fe₃N-CrN Nanorods, Invited Talk.

285. National Seminar on Advances in Electroceramics 2006, ARDE, Pune, 10-11 April 2006, Dielectric Properties of Nanostructured PZT, Invited talk, N. S. Gajbhiye.
286. 11th Asian Symp. Information Display, Oct. 8-11, 2006, New Delhi, Oral talk, N. S. Gajbhiye.
287. Int. Conf. NanoMaterials Electronics, Nov. 27-29, 2006, C-Met-Pune. Oral talk, N. S. Gajbhiye.
288. Int. Symp. on Materials Chemistry, Dec. 4-8, 2006, BARC-Mumbai, Invited talk, N. S. Gajbhiye.
289. Int. Conf. on the Physics of Mesoscopic and Disordered Materials, December 4-8, 2006, IIT-Kanpur. Oral Talk, N. S. Gajbhiye.
290. Indian Science Congress, Annamalai University, Chidambaram, Jan. 3-7, 2007, Coordinator & Special Invited Lecture on the theme 'Nanotechnology', N. S. Gajbhiye.
291. Int. Conf. on Modern trends in Chemistry, University of Mumbai, January 23-25, 2007. Chairman of the session & Oral Talk, N. S. Gajbhiye.
292. Int. Indo-US Workshop on Advanced Oxides and Nanostructured Materials, February 19-22, 2007, IHC-New Delhi. Invited Talk, N. S. Gajbhiye.
293. 2nd Discussion meeting on Spectroscopy and Dynamics of Molecules & Clusters, The International Centre, Dona Paula, Goa, India, Mar.30-Apr.1 (2006), D. Goswami.
294. International Symposium on Quantum Optics, Physical Research Labs, Ahmedabad, 24-27 July (2006) , D. Goswami.
295. Wellcome Trust Senior Fellows Meeting, Wellcome Trust, 215 Euston Road, London, UK, 25-26 October (2006) , D. Goswami.
296. 7th Asian International Seminar on Atomic and Molecular Physics, Indian Institute of Technology, Chennai, 4-7 December (2006) , D. Goswami.
297. 2007 Reach Symposium, Hotel Timber Trail Heights, Parwanoo, HP, March 7-9 (2007) , D. Goswami.
298. The first symposium of the Indian peptide society at Hyderabad February 21-23 2007, R. Gurunath.
299. CRSI: Delhi University, B. D. Gupta.
300. Plenary lecture at Second International conference on Heterocyclic Chemistry Conference at Jaipur: 16-19 December, 2006, F. A. Khan.
301. Invited lecture at International Conference on Structure and Dynamics 2006, Dept of Chemistry, University of Calcutta: 14-16 December, 2006, F. A. Khan.
302. Invited Talk on Rational Approaches to Engineering Organic Molecular Photobehavior and Organization, First India-Taiwan Conference on the Frontiers of Organic Chemistry, Hsinchu, Taiwan, January 07-11, 2007, J. N. Moorthy.

303. Invited Lecture: R. N. Mukherjee, Modeling Hydrolytic Enzymes. Phosphate Ester Hydrolysis by Phenoxo-bridged Dinickel(II) and Ethyl Acetate Hydrolysis by Hydroxo-bridged Dicopper(II) Complexes, R. N. Mukherjee.
304. The 3rd Asian Biological Inorganic Chemistry Conference (AsBIC-III), Nanjing, China (October 31 – November 3, 2006), R. N. Mukherjee.
305. Session Lecture: A. K. Sharma, A. Mukherjee, F. Lloret, and R. N. Mukherjee, Linear Homo- and Heterotrinnuclear and Homodinuclear Complexes with Phenolate-/Acetate-Bridging. Structures and Magnetism International Conference on Coordination Chemistry (ICCC37), Cape Town, South Africa (August 13 – 18, 2006)
307. Biocompatibility of water soluble multiwalled carbon nanotube on the growth of Escherichia-coli in relevance to its use in carrier systems for the delivery of therapeutic molecules, Humboldt Kolleg, Palampur, March 24, 2006, S. Sarkar.
308. On the Aspect of Modeling Molybdoenzymes, Chemistry Department, University of Ulm, 7th July, 2006 Germany, S. Sarkar.
309. The enzyme behind the fishy smell and more, Chemistry Department, University of Kiel, 12th July, 2006 Germany, S. Sarkar.
310. The wet side of carbon nanotube, Chemistry Department, University of Bremen, 14th July, 2006 Germany, S. Sarkar.
311. Modeling Copper Trafficking Proteins, Oxidative Stress and “Ostwald’s Rule of Stages, Inorganic Chemistry Department, IACS, Kolkata, 17th September, 2006, S. Sarkar.
312. Carbon nanotube and its diverse use , Biotechnology Department, Heritage Institute of Technology, Kolkata, 9th November, 2006, S. Sarkar.
313. Modeling Copper Trafficking Proteins, Oxidative Stress and “Ostwald’s Rule of Stages, School of Chemistry, University of Hyderabad, 9th January, 2007, S. Sarkar.
314. Evolutionary Bioinorganic Chemistry, School of Chemistry, University of Hyderabad, 11th January, 2007, S. Sarkar.
315. Water soluble carbon nanotube and drug delivery, Discovery Laboratory, Dr. Reddy’s Laboratory, 12th January, Hyderabad, 2007, S. Sarkar.
316. Water soluble multiwall carbon nanotube from candle soot and its drug delivery: A study on the growth of Escherichia-coli, Physics Department, Chandigarh, March 30, 2007, S. Sarkar.
317. Modeling Copper Trafficking Proteins and New Perspective on Oxidative Stress, presented in the International conference on oxidative stress and aging, Kuwait University, 18-21 March , 2007, S. Sarkar.
318. Modeling Molybdoenzymes, Chemistry Department, University of Gorakhpur, 28th March, 2007, S. Sarkar.

319. Frontiers in Chemistry workshop, Department of Chemistry, Government Model Science College, Jabalpur, Sep. 15-16, 2006, N. Sathyamurthy.
320. IUPAC Discussion Meeting on Hydrogen Bond, Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bangalore, Sep. 18, 2006, N. Sathyamurthy.
321. National Symposium on, Advances in Chemistry and Environmental Impact, Department of Chemistry, North-Eastern Hill University, Shillong, November 2-3, 2006, N. Sathyamurthy.
322. 7th Asian International Seminar on Atomic and Molecular Physics, Indian Institute of Technology Madras, Chennai, December 4-7, 2006, N. Sathyamurthy.
323. Theoretical Chemistry Symposium 2006, Bharathidasan University, Tiruchirappalli, Dec. 11-13, 2006, N. Sathyamurthy.
324. Indian National Science Congress, Annamalai University, Annamalainagar, Jan. 5-7, 2007, N. Sathyamurthy.
325. Discussion meeting on Spectroscopy and Dynamics of Molecules and Clusters, Corbett National Park, Uttaranchal, Feb. 23-25, 2007, N. Sathyamurthy.
326. Reach2007, Timber Trails, Himachal Pradesh, March 7-10, 2007, N. Sathyamurthy.
327. Spectroscopy and Dynamics of Molecules and Clusters IV, Corbet National Park, Uttarkhand, India, February 2007, K. Srihari.
328. Theoretical Chemistry Symposium X, Tiruchirapalli, December 2006, K. Srihari.
329. IITK-REACH Symposium, Parwanoo, March 2007, K. Srihari.
330. Delivered a lecture at the International Carbohydrate Symposium at Whistler, BC, Canada (July 22-28, 2006) on July 25, 2006, Y.D. Vankar.
331. Delivered a lecture at MS University Baroda, in a National Seminar on Chemistry Research on October 16, 17 2006, Y.D. Vankar.
332. Delivered a lecture at Syngenta Research & Technology Centre inauguration meeting on December 1, 2006 at Santa Monica Site, Goa, Y.D. Vankar.
333. International Conference in Coordination Chemistry, Cape Town, South Africa, August 13-19, 2006, S. Verma.
334. Annual conference of Bharat Ganita Parisad, Lucknow : Invited talk, "Role of operator spaces in Harmonic Analysis" , also chaired a session, Tewari, U.B.
335. Projective Modules and Complete Intersections, December 28-30, 2006, Tata Institute of Fundamental Research, Mumbai, A.K. Maloo.
336. International Conference on Modern Stochastic Theory: Theory and Applications, Department of Probability Theory and Mathematical Statistics, Kyiv National Taras Shevchenko University, Kiev , Ukraine in June, 2006,

- contributed paper: 'Consistent estimation of regression coefficients in measurement error model under exact linear restrictions' Shalabh.
337. Fourth International Workshop on Total Least Squares and Errors-in-Variables Modeling held at Katholieke University, Leuven, Belgium in 2006, contributed paper - On the estimation of linear ultra structural model when error variances are known, Shalabh.
 338. Third Autumn Symposium of the Research Training Group "Statistical Modelling" held at University of Dortmund, Germany in November 2006, contributed paper - Parametric estimation in measurement error models , Shalabh.
 339. International Conference on Complex Systems (ICCS06), Boston, USA, June 25-30, 2006, contributed paper - Stability of simulation of highly uneven curves and surfaces using fractal interpolation Kapoor, G.P.
 340. Recent advances in optimization, theory and applications, Department of Mathematics, University of Delhi, 27-28, Sharma, P.
 341. ICM 2006 at Madrid, Spain, Madan,S.
 342. International conference MAFEL 2006, at BRUNEL University, U.K. (June 12-16,2006) Contributed paper Rathish, B.V.K.
 343. International Conference on Logic, Navya and Applications: A Homage to Bimal Krishna Matilal , January 3-6, 2007, Kolkata, M. Banerjee.
 344. SIAM Conference on Analysis of Partial Differential Equations, July 10-12, 2006 at Boston, Massachusetts,, Contributed paper, Ritesh, K.
 345. National conference on Differential equations, Perier university, Salem, Sept. 28-29, 2006, Invited Talk - Non Linear Elliptic Equations: An Overview, V. Raghavendra
 346. International Conference on Bioinformatics and Computational Biology (BIOCOMP' 06) held at LAS VEGAS, NV, USA during June 26-30, 2006, contributed paper, Prawal Sinha
 347. International Conference on Mathematical Modeling and Computer Simulation, held at Jaipur, India, during Dec. 12-15, 2006 contributed paper,. Prawal Sinha
 348. ICAPM-2006, May28 - Jun4, Marrakech, Morrocco, contributed paper,B.V. Rathish Kumar
 349. 2nd IMT-GT Regional Conference on Mathematics, Statistics and Applications,Universiti Sains Malaysia, Penang, Malaysia (June 2006), contributed paper, Bhupendra Gupta
 350. Fourteenth International conference of the Forum for Interdisciplinary Mathematics at IIT Madras during 6-8 January 2007, contributed paper,Vikas Gupta

351. The Fourteenth International Conference of the Forum for Interdisciplinary Mathematics 2007, IIT Madras, 06-08 January 2007, Contributed Paper Ramesh, V.P.
352. International Conference on Logic, Navya and Applications: A Homage to Bimal Krishna Matilal, January 3-6, 2007, Banerjee, M.
353. International Conference organized by International Indian Statistical Association (IISA) at the Cochin University of Science and Technology, Cochin, 2007, Contributed Paper - Mitra, A., Prasad, A., Kundu, D.
354. Annual conference of Indian Mathematical Society held at Rani Durgavati University, Jabalpur, December 26-29, 2006 - Invited Talk, Santhanam, G.
355. Annual conference of Bharati Ganita Parisad, Lucknow, Nov. 2006. Invited talk "On some work of Lennart Carleson, Abel Prize 2006" Madan, S.
356. IITK REACH Symposium held at Kalka, India during March 7-10, 2007, Poster presentation, Anurag Prasad
357. National Symposium on Combinatorics, Number Theory and Geometry, 15-20 January, 2007 held at Mumbai University - Invited talk "Sharp Upper Bound for the first eigenvalue of closed hypersurfaces in rank-1 symmetric Spaces" Santhanam, G.
358. ESMRMB 23rd Scientific meeting, Warsaw, Poland, 21-23 September 2006, Contributed Paper -Purwar, A
359. 38th International Conference on Combinatorics, Graph Theory and Computing held in Florida Atlantic University, March 5 - 9, 2007, Contributed Paper - On the existence of constrained labeling for locally finite graphs, B. Bhattacharyya.
360. International Conference on Bioinformatics and Computational Biology (BIOCOMP' 06) held at LAS VEGAS, NV, USA during June 26-30, 2006 contributed paper - Mucus Transport in the lung due to cough: Turbulent flow models with viscoelastic effects, Prawal Sinha
361. 14th Annual conference of Intl. Soc. Mag. Resonance in Med., Seattle, USA, May 7 -14, 2006, Contributed Paper - Rathore, R.K.S.
362. International Indian Statistical Association Conference, held at Cochin University of Science and Technology, Jan 02-05, 2007, invited talk : On Hybrid Censored Weibull Distribution, D. Kundu
363. Oral and Poster Presentation: Crossover in pinning regimes of the vortex solid and the peak effect at the 11th International workshop on Vortex Matter at Wroclaw, Poland, July 3rd - 8th, 2006. (Satyajit Banerjee)
364. Chaired a session: At the 11th International workshop on Vortex Matter at Wroclaw, Poland, July 3rd -8th, 2006. (Satyajit Banerjee)
365. Poster presentation: Pinning regimes in the vortex solid and the crossover between them in single crystals of 2H-NbSe₂ at the 8th International Conference

- on Materials and Mechanisms of Superconductivity and High Temperature Superconductors, Dresden, July 9th -14th , 2006. (Satyajit Banerjee)
366. Invited talk: Instabilities in Superconductors, National conference on Emerging trends in engineering materials, Thapar Institute of Engineering and Technology, Patiala, Punjab, Feb 1-3, 2007 (Satyajit Banerjee)
367. Chaired a session: At the National conference on Emerging trends in engineering materials, Thapar Institute of Engineering and Technology, Patiala, Punjab, Feb1-3, 2007. (Satyajit Banerjee)
368. Invited Oral Presentation: Theme Meeting on High Current Ion sources (HCIS 06), Variable Energy Cyclotron Center, Department of Atomic Energy, Kolkata, April 06-07, 2006 (Sudeep Bhattacharjee)
369. Invited Oral Presentation: Plasma Science Society of India-Institute for Plasma Research (PSSI-IPR) workshop on National Fusion Programme: ITER and Beyond, Institute for Plasma Research, Gandhinagar, November 08-10, 2006. (Sudeep Bhattacharjee)
370. Contributed Papers: Indian Particle Accelerator Conference-2006, Bhabha Atomic Research Center and Tata Institute of Fundamental Research, Mumbai, November 1-4, 2006 (Sudeep Bhattacharjee)
371. Contributed Papers: 21st National Symposium on Plasma Science and Technology, Malaviya National Institute of Technology, Jaipur, December 19 - 22, 2006 (Sudeep Bhattacharjee)
372. Invited talk at the National Workshop "Modeling infectious Diseases: from cell to society" Institute of Mathematical Sciences, Chennai, September 4-6, 2006. (D Chowdhury)
373. Invited talk at the International workshop "Frontiers of Nanobiotechnology" Allahabad University, December 1, 2006.(D Chowdhury)
374. Statphys-Kolkata VI (International Conference on Statistical Physics), Radisson Resort, Raichak, West Bengal, India, Invited Speaker. (Amit Dutta)
375. Materials and Mechanism of superconductivity-M2S-HTSC-VIII, July 09 to July 14, 2006 Dresden, Germany (Poster presentation) (Z. Hossain)
376. 8th Prague Colloquium of F-electron systems, Prague, Czech Republic, 8-11 September, 2006 (Oral presentation). (Z. Hossain)
377. DAE particle physics symposium at IIT Kharagpur, December 11-15, 2006. (Pankaj Jain)
378. International workshop in Theoretical High Energy Physics , IIT Roorkee, March 15-20, 2007, Plenary Talk, Composite structure and causality. (S. D. Joglekar)
379. First Mexican Encounter on Space-time Microstructure, Patzcuaro, Mexico, November 06-10, 2006, Invited Talk, Regularizations of Field Theory, non-local Regularization (S. D. Joglekar)

380. Workshop on Electronic structure of solids, Lonavala, February 07-10, 2007, chaired a session (R. Prasad)
381. Workshop on computational materials science, Bangalore, February 15-17, 2007. Gave an invited talk, chaired a session. (R. Prasad)
382. Reach Symposium, Kalka, March 07-10, 2007, Gave an invited talk, (R. Prasad)
383. Workshop on multiscale modeling of materials, BARC, October 12-14, 2006. Gave an invited talk, (R. Prasad)
384. Workshop on magnetic materials, Kolkata January 08-10, 2007 Gave an invited talk, (R. Prasad)
385. German Physical Society March Meeting, Dresden, 27-31, March 2006, Presentation: U-controlled Frustration in the Triangular-Lattice Antiferromagnet (Avinash Singh)
386. Dynamo Using Energy Fluxes, in Nonlinear Cosmology: Turbulence and Fields, held at ICTP in 9 May-12 May 2005. (M. K. Verma)
387. Mode-to-mode Energy Transfers and Patterns in Convection, in National Conference on Nonlinear Systems and Dynamics, Aligarh, 2005. (M. K. Verma)
388. Multicolored Coherent Population Trapping, International Symposium on Quantum Optics-2006 (ISQO-06), July 24-27, 2006, Physical Research Laboratory, Ahmedabad. (H.Wanare)
389. Multicolored Atomic Coherence, Sixth DAE- BRNS National Laser Symposium (NLS-6), December 05-08, 2006, Raja Ramanna Center for advanced Technology, Indore. (H.Wanare)
390. Conference cum Seminar on the *Emerging Trends in Physics* September 20-23, 2006 held at Khalsa College, Delhi University Talk title: Signatures of spin glass freezing in NiO nanoparticles (Dr. K.P. Rajeev)
391. Plasmonic properties of checkerboards of negative ϵ and μ , 9th International conference on near-field optics, nanophotonics and related techniques, Lausanne, Switzerland, 10-15 Sept. 2006 (Poster presented by Prof. O.J.F. Martin in our absence), S.A. Ramakrishna, S. Chakrabarti and S. Guenneau.
392. Bianisotropy of symmetric split ring resonators at optical frequencies., 9th International conference on near-field optics, nanophotonics and related techniques, Lausanne, Switzerland, 10-15 Sept. 2006, S.A. Ramakrishna and S. Chakrabarti.
393. Negative refractive index of metamaterials at optical frequencies., MRS fall Meeting 2006, Symposium R (27th to 30th Nov. 2006, Boston) (Invited Lecture), S. A. Ramakrishna, and S. Chakrabarti.
394. Understanding boundary induced phase transitions in asymmetric simple exclusion processes through boundary layer analysis -Interantioanl conference "StatPhys VI", Kolkata from 5th-9th January (2007), Sutapa Mukherjee

395. Boundary layer analysis for asymmetric simple exclusion processes - Colloquium at BHU on 19th March (2007) Sutapa Mukherjee
396. International Conference on 9th Asian Symposium on Information Display (ASID'06), October 2006, held at New Delhi on "OLED Fundamentals" (Tutorial) Y. N. Mohapatra

SEMINAR PRESENTED

1. Rotor blade dynamics and rotor/ fuselage dynamics at Regional Center for Military Airworthiness (RCMA) Chandigarh, 3BRD, Airforce, Sept. 2006, C. Venkatesan.
2. Helicopter Dynamics at Department of Aerospace Engineering, Punjab Engineering College, Sept. 2006, C. Venkatesan.
3. Spatio-temporal wave dynamics and signal propagation in fluid dynamical system- at Technischen Universitat Wien, at Vienna, 21 July, 2006, Tapan K. Sengupta.
4. Excitation of shear layer instability in flow past a cylinder at low Reynolds Numbers, 11th Asian Congress of Fluid Mechanics (ACFM) 22-26 May, Malaysia, 2006, S.Mittal.
5. Shape Optimization for Fluid Flow Problems, 11th Asian Congress of Fluid Mechanics (ACFM) 22-26 May, Malaysia, D.N. Srinath and S.Mittal.
6. Vortex Induced Oscillations at Low Reynolds Numbers: Effect of Blockage, 11th Asian Congress of Fluid Mechanics (ACFM) 22-26, May Malaysia, 2006, T.K. Prasanth S. Behara and S. Mittal.
7. Effect of blockage on Vortex induced Vibrations at Low Reynolds Numbers, in 7th World Congress on Computational Mechanics (WCCM), Hyatt Regency Century Plaza Hotel, Los Angeles, California, USA July 16-22, 2006, S.Mittal , T.K. Prasanth and S. Behara.
8. Finite Element Methods in Fluid Flows Annual Convention, Indian National Academy of Engineering, INSA New Delhi December 8-9, 2006, Sanjay Mittal.
9. Shape Optimization for low Reynolds Number Flows, 14th International Conference on finite Elements in Flow Problems, FEF07, Santa Fe New Mexico, USA March 26-28, 2007, D.N. Srinath and S Mittal.
10. Finite Element Methods in Fluid Flows invited lecture at Civil Engineering, Chuo University, Tokyo April 2, 2007, Sanjay Mittal.
11. Finite Element Methods in Fluid Flows, Aerospace Technologists Meet February 1-2, IIT Madras, Chennai, 2007, Sanjay Mittal.
12. Aerodynamics of Wraparound Fins for Artillery Rockets, ARDE, Pune, S.K. Gupta.

13. Parameter Estimation Using Conventional & Unconventional Methods, DRDL, Hyderabad, S.K. Gupta.
14. Emissions in Gas Turbine Combustors: Effects of Spray Characteristics, Workshop on Modeling Diagnostics and Control of Pollutant Formation and Emission in Combustion, under the auspices of the Combustion Institute (Indian Section), Jadavpur University, Kolkata, Jan. 14-15, 2006, Kushari A.
15. Computation of solid-fluid coexistence conditions by thermodynamic integration, Chemical Engineering Department, IIT Kanpur, April 21, 2006, P. A. Apte.
16. Colloidal and multiphase systems for nanomaterials, Invited talk in the Workshop on Colloids and Materials Chemistry, Regional Research Laboratory (RRL), Bhubaneswar, January, 2007, R. Bandyopadhyaya.
17. Structure and Dynamics in Multiphase Systems for Nanomaterials Synthesis and Applications, Invited talk in the First Indo-UK Nanotechnology Conference, British Council and S. N. Bose National Centre for Basic Sciences, Calcutta, November, 2006, R. Bandyopadhyaya.
18. Nanostructured composites, short-term course on Recent Trends in Nanocomposites, Invited talk in short term course on Advanced Materials, IIT Kanpur, November, 2006, R. Bandyopadhyaya.
19. The world of nanoparticles and nanocomposites, Invited talk in the Nanotechnology Workshop, IIT Madras, October, 2006, R. Bandyopadhyaya.
20. From molecules to materials: Surfactants as building block, contributing talk in National Chemical Laboratory, Pune, April, 2006, R. Bandyopadhyaya.
21. Gene expression profiling and gene network analysis, Indo-US workshop on Computational Optimization and Analysis of Systems, IIT Kanpur. Jauray, 2007, G. S. Sikarwar, R. Verma and S Garg.
22. From clustering expression data to gene network reconstruction: array informatics using mathematical programming, CSJM University, February 2007, S Garg.
23. Textured Functional Materials, IIT Kanpur Reach Symposium 2007, A. Ghatak.
24. Chinese Petroleum Corporation, Kaohsiung, Taiwan, July, 2006, J. P. Gupta.
25. Gujarat State Petroleum Corporation, Gandhinagar, March 2007, J. P. Gupta.
26. Hung Kuang University, Taichung, Taiwan, July 2006, J. P. Gupta.
27. National Cheng Kung University, Tainan, Taiwan, J. P. Gupta.
28. Aging dynamics in soft glasses, Indian Institute of Technology - Bombay, November 2006, Y.M. Joshi.
29. Aging dynamics in soft glasses, Raman Research Institute, Bangalore, November 2006, Y.M. Joshi.
30. Aging dynamics in soft glasses, Université du Maine, France, February 2007, Y.M. Joshi.

31. Stability of viscoelastic shear flows past deformable solids, Workshop on Applied mechanics and mathematics, Department of Mechanical Engg, IIT Kanpur (March 2007), V. Shankar.
32. Self-organized meso fabrication with polymers, Central Glass and Ceramic research Institute (Kolkata); May 2006, A. Sharma.
33. University of Erlangen-Nuernberg; October 2006, A. Sharma.
34. National Institute of Standards and Technology (NIST, Maryland); July 2006, A. Sharma.
35. Presented Models of Vehicular Traffic: An Engineering Perspective; IIT Delhi, October 2006, Chakraborty, P.
36. Presented Optimization Problems in Transportation: Some Examples; IIT Kharagpur, January 2007, Chakraborty, P.
37. Presented Models of Vehicular Traffic: An Engineering Perspective; University of North Carolina at Charlotte, USA, January, 2007, Chakraborty, P.
38. Determination of Microbial Ecology by Deconvolution of PLFA-FAME Signature of Mixed Culture, IIT Bombay, April 4, 2007, S. Guha.
39. Presented Remote Sensing and its applications, GPG Girls College, Kanpur, 19 January 2007 (Invited presentation), Lohani, B.
40. Presented Research avenues unfolded by LiDAR technology, Map World Forum 2007 Hyderabad, 24 January 2007 (Invited presentation), Lohani, B.
41. Search for Evidence of Past Earthquakes Similar to the 2004 Event: Paleoseismological Surveys in Andaman Islands and Rakhine Coast, Eos Trans. AGU, 87(52), Fall Meet. Suppl., Abstract U52A-06, 2006, Satake, K, Y Okamura, M Shishikura, T Aung, H Kayanne, Y Ikeda, T Echigo, J N Malik, S Basir, G Chakraborty, W Swe, T Swe, S Tun, H Saw.
42. Active fault influence on the evolution of drainage and landscape: Evidence from frontal areas along Northwestern Himalaya, India. 3rd AOGS annual meeting at Singapore, July 2006. p. 950/1202, 2006, Malik, J. N.
43. Probable occurrence of Paleo-tsunami deposit: Evidence from preliminary trench investigations around Port Blair, South Andaman, India. 3rd AOGS annual meeting at Singapore, July 2006, p. 932/1202, 2006, Malik, J. N.
44. Transient Uplift Since the 2004 Sumatra-Andaman Earthquake and Deformation Cycle in the Andaman Islands. 3rd AOGS annual meeting at Singapore, July 2006, p. 925/1202, 2006, Shishikur, M., Satake, K., Ikeda, Y., Kayanne, H., Echigo, T., Kamataki, T., and Malik J. N.
45. Coseismic Land-level changes caused by 26 December, 2004 Sumatra earthquake and evidence of paleotsunami deposits (?) in Andaman and Nicobar Islands, India. 100th Anniversary 1906 San Francisco Earthquake conference at San Francisco, April, 2006, 2006, Malik, J. N., and Murty, C. V. R..

46. Attended INAE National Seminar on Engineering Response to Hazards of Terrorism at IIT Kanpur during 25-26 September 2006, S. K. Jain.
47. Keynote Speaker, International Disaster Management Symposium :: Culture of Prevention, 18 January 2007, Kobe, JAPAN
48. Special Presentation, World Housing Encyclopedia Initiatives in World Housing Earthquake Safety, Special Session on Housing Safety in Developing Countries, 8th US National Conference on Earthquake Engineering, 19-21 April 2006, San Francisco, USA
49. Luncheon Speaker, Future of World Housing Encyclopedia, Business Luncheon of the Earthquake Engineering Research Institute, USA, during the 8th US National Conference on Earthquake Engineering, 19-21 April 2006, San Francisco, USA
50. Presenter, Dependence of Ductility and Energy Dissipation on Limiting Strain States in Seismic Design of RC Columns, during the 13th World Conference on Earthquake Engineering, 1-6 August 2006, Vancouver, CANADA
51. Speaker, Seismic Design of Steel Plate Shear Walls in Steel Frames, 3rd Indo-German Workshop and Theme Meeting on Seismic Safety of Structures, Risk Assessment and Disaster Mitigation, 12-13 March 2007, BARC, Bombay
52. Invited Speaker, International Roundtable on Lessons from Natural Disasters, Policy Issues and Mitigation Strategies, 8-12 January 2007, Vellore, India
53. Invited Speaker & Chief Guest, Role of Engineers in Disaster Management, Engineers's Day Celebration, 14 September 2006, Institution of Engineers (India), Indore Chapter
54. Invited lecture on 'River interlinking: impact on earth systems', Regional meeting of the North Indian Chapter of the Geological Society of India at BSIP, Lucknow on 17th July, 2006, Rajiv Sinha.
55. Keynote lecture on 'Calcretes in Ganga Plains: a proxy for paleoprecipitation and paleovegetation (MIS 3-5)', International conference on 'Changing Scenario in Paleobotany and allied subjects', Birbal Sahni Institute of Paleobotany Lucknow, November 15-17, 2006. Rajiv Sinha.
56. Invited lecture on 'Active tectonics and alluvial rivers: concepts, methods and examples' SERC School on 'Crustal Deformation and Tectonic Geomorphology: Module 3, Wadia Institute of Himalayan Geology Dehradun, 6-20th Feb. 2007, Rajiv Sinha.
57. Atmospheric Nucleation of Aerosols, Center for Climate System Modeling, The University of Tokyo, July 28, 2006, Tripathi, S.N.
58. Atmospheric Pollution, Dept. of Chemical Engineering, Institute of Technology, Banaras Hindu University, Varanasi, November 06, 2006, Tripathi, S.N.

59. 2-day workshop on Embedded Wireless Sensors, as part of ICTP-ITU-URSI School on Wireless Networking for Scientific Applications in Developing Countries, ICTP, Trieste, Italy, February 20-21, 2007, Bhaskaran Raman.
60. Bhaskaran Raman, an Introduction to WiFi (IEEE 802.11), iSync - Communication Technology Workshop, 25 August 2006, Punjab Engineering College, India, Bhaskaran Raman.
61. IPv6 Tutorial (A full-day tutorial), at Punjab Engineering College, Chandigarh in August 2006, at MNNIT Jaipur in September 2006, Dheeraj Sanghi.
62. Transcript: An Encrypting File System at more than 10 colleges in India, Dheeraj Sanghi.
63. An Introduction to IPv6, at more than 10 colleges in India, Dheeraj Sanghi.
64. Why should CSE students go for MTech/PhD, at more than 30 colleges in India, Dheeraj Sanghi.
65. Digital Gangetic Plain, at Microsoft Wireless Summit, Goa, April 2006, Dheeraj Sanghi.
66. Simplifying Active Memory Clusters by Leveraging Directory Protocol Threads, Workshop on Chip-multiprocessors held in conjunction with the 13th International Conference on High-Performance Computing, December 2006, Mainak Chaudhuri.
67. Simplifying Active Memory Clusters by Leveraging Directory Protocol Threads, Invited speaker, Indian Institute of Technology, Kharagpur, October 2006, Mainak Chaudhuri.
68. Integrated Memory Controllers with Parallel Coherence Streams, Workshop on Cutting-edge Computing held in conjunction with the 13th International Conference on High-Performance Computing, December 2006, Mainak Chaudhuri.
69. Integrated Memory Controllers with Parallel Coherence Streams, Invited speaker, Indian Institute of Science, Bangalore, December 2006, Mainak Chaudhuri.
70. Modelling Embryogenesis, Invited talk, Workshop on Bioinformatics, IET, Kanpur, February 23-24, 2007, Mainak Chaudhuri.
71. Determinant Versus Permanent, Seminar given at ICM Madrid, UCSD, CalTech, UCLA, Berkeley, Stanford, Manindra Agrawal.
72. Primality Tests Based on Fermat's Little Theorem, Invited talk given at 7th ICDCN, Guwahati, Manindra Agrawal.
73. Finite Rings and Integer Lattices, Series of talks given at Bellairs Institute, Barbados, Manindra Agrawal.
74. A Short History of PRIMES is in P, Talk at ICALP, Venice, Manindra Agrawal.

75. Multimodal Biometrics System- A Step towards Individual Security, National Workshop on Security held at B C Roy Engineering College, Durgapur, India, November 2006, Phalguni Gupta.
76. Information Technology for Individual Security - A Step towards National Security, IETE Seminar held at IIT Kanpur, November 2006, Phalguni Gupta.
77. Mobile IP and routing issues, M-COMP 2006 National Conference on Mobile Computing, September 22-23, 2006, Organised by IEEE Kerala Section, Ratan Kumar Ghosh.
78. Multicore curriculum development in India at Intel Workshop on Multicore curriculum, May 2006, Portland, Oregon, Sanjeev Kumar Aggarwal.
79. Multicore curriculum at IIT Kanpur at (i) Intel Multicore Development Workshop, Jaipur Sep 2006 (ii) Intel Asia Academic Forum, Malaysia, Nov 2006 (iii) Intel Developers Forum, Bangalore, Oct 2006 (iv) Intel Multicore workshop for Teachers, Bangalore, Dec 2006, Sanjeev Kumar Aggarwal.
80. Presentation on Fingerprint Separation, 11th April 2007, Hyderabad, India, P. K. Kalra.
81. Invited Talk on Fingerprint separation, 1st December, 2006, 3rd International Workshop on Biometrics, IIT Kanpur, India, P. K. Kalra.
82. Invited presentation on Conceptualization of Power exchange in India - Solutions and challenges, 22 Feb. 2007, National regional load dispatch center (NRLDC), New Delhi, India, P. K. Kalra.
83. Delivered a key note lecture on 27th Dec. 2006 on Indian Power And Energy Sector Development: Present Scenario & Few Challenges in the 14th National Power Systems Conference (NPSC), IIT Roorkee, 27-30 December, 2006, S. C. Srivasatava.
84. Delivered an invited lecture on 'Secure Operation of Power System in Electricity Markets Power System Restructuring' at Asian Institute of Technology Bangkok, Thailand on 4th November 2006, S. C. Srivasatava.
85. Delivered an invited lecture on 'Strengthening Industry-Academia Collaboration' during Technology Summit Meet of Crompton Greaves of India Ltd. at Mumbai on 8th Feb. 2007, S. C. Srivasatava.
86. Delivered an invited lecture Introduction to Power Electronics in AICTE sponsored Staff Development Programme on Recent Trends and Applications in Power Electronics and Drives, U.C.E. Burla, Sambalpur, June 19- July 1, 2006, S.P.Das.
87. Delivered an invited lecture Multi-level Converters in AICTE sponsored Staff Development Programme on Recent Trends and Applications in Power Electronics and Drives, U.C.E. Burla, Sambalpur, June 19- July 1, 2006, S.P.Das.
88. Delivered an invited lecture DC and AC Variable Speed Drives in AICTE sponsored Staff Development Programme on Recent Trends and Applications in

- Power Electronics and Drives, U.C.E. Burla, Sambalpur, June 19- July 1, 2006, S.P.Das.
89. Delivered an invited lecture Unified Power Quality Conditioner for Power Distribution Systems in AICTE sponsored Staff Development Programme on Recent Trends and Applications in Power Electronics and Drives, U.C.E. Burla, Sambalpur, June 19- July 1, 2006, S.P.Das.
 90. Delivered an invited lecture Modern Trends in Power Electronics in PSIT, Bhauti, Kanpur, Nov. 2006, S.P.Das.
 91. Delivered the seminar entitled Matrix Converter-fed High Performance Synchronous Motor Drive System in GE John F. Welch Technology Center, Bangalore, December 19, 2006, S.P.Das.
 92. Extended course on High Voltage Engineering, UPTEch, Kanpur, July, 2006, N. Gupta.
 93. Basics of High Voltage Engineering, KCNIT, Banda, 2006, N. Gupta.
 94. Three-day Workshop on Rotating Machinery Insulation, BHEL, Bhopal, Jan 2007, N. Gupta.
 95. On Universal Compression, Shannon's Entropy and Individual Sequences on February 11, 2006 in TECHNEX (Students' Technical Festival held at BHU-IT, Varanasi), R. K. Bansal
 96. Introduction to Continuous Speech Recognition, National Conference on Communication, (IIT, Kanpur), Jan. 2007, S. Umesh.
 97. Spread Spectrum for Mobile Communications, National Workshop on Mobile Communications at Ujjain Engineering College jointly organized with SGSITS, Indore, 16th to 18th March 2007, A. K. Chaturvedi.
 98. Visual Surveillance Technology, Workshop on use of Signal and Image Processing and its Application to Display Technology, May 6, 2006, IIT Bombay, K. S. Venkatesh.
 99. Video Surveillance for Counterterrorism, INAE Seminar on Engineering Response to Hazards of Terrorism, 25-26 September. 2006, IIT Kanpur, K. S. Venkatesh.
 100. Automation of Video Surveillance: Some Recent Advances. One day Workshop on Intelligent Assistive Systems for Health Care Applications, Jan 30th 2007, IIT Kanpur, K. S. Venkatesh.
 101. All-optical packet switching: architectural and design issues, ADCAN Lab, Dept. of Computer Science, Chonbuk National University, Jeonju, South Korea, 04 December 2006, Y. N. Singh.
 102. Issues in design and development of learning management system, Indian-ASEAN seminar of Elearning, 6-7 November 2006, Hyderabad, Y. N. Singh.
 103. Optical communications: transmitters and receivers, Short course on Optical Communications, NIT Raipur, 14 July 2006, Y. N. Singh.

104. Optical networks: Introduction, Short course on Optical Communications, NIT Raipur, 14 July 2006, Y. N. Singh.
105. All Optical Packet Switching: Architectures and issues, Invited talk in TIFAC-CORE@DCE, Delhi College of Engineering, Delhi, 23 April 2006, Y. N. Singh .
106. Evolution Does Not Lead To Cyborg, Workshop on Intelligent Assistive Systems for Healthcare Applications, January 30, 2007, Indian Institute of Technology, Kanpur, G. C. Ray.
107. Activities at Department of Electrical Engineering, I.I.T. Kanpur, Presented at International Crossroads, Institut National des Telecommunications, Evry, France, January 26, 2007, S. Qureshi.
108. RFID: Identification using radio frequency, IETE, Kanpur Chapter, 25th March 2007, A.R. Harish.
109. All-optical packet switching: architectural and design issues, [ADCAN Lab](#), Dept. of Computer Science, Chonbuk National University, Jeonju, South Korea, 04 December 2006, Y.N. Singh.
110. Issues in design and development of learning mangement system, Indian-ASEAN seminar of Elearning, 6-7 November 2006, Hyderabad, Y.N. Singh.
111. Optical communications: transmitters and receivers, Short course on Optical Communications, NIT Raipur, 14 July 2006, Y.N. Singh.
112. Optical networks: Introduction, Short course on Optical Communications, NIT Raipur, 14 July 2006, Y.N. Singh.
113. All Optical Packet Switching: Architectures and issues, Invited talk in TIFAC-CORE@DCE, Delhi College of Engineering, Delhi, 23 April 2006, Y.N. Singh.
114. Design of Optically Actuated MEMS components, School of Electrical and Electronics Eng., Nanyang Technological University, Singapore, June 2006, Anjan K. Ghosh.
115. Emerging Market Structure in the Indian Power Sector - Understanding implications of the Electricity Act 2003, Electric Power System Operation and Control: Modern Trends and Future Challenges, IIT, Kanpur, 28 August - 1 Sept., 2006, Anoop Singh.
116. Humans, Corporations and the 21st Century: Resources or Liabilities? All India Management Seminar on Leveraging Human Potential in Emerging Global Opportunities, 23rd Sep., 2006, Institute of Productivity Management, Kanpur, Varman, Rahul.
117. Political Economy of Globalisation, Seminar on Global Opportunities and Challenges of 21st Century. 4th Nov. 2006, National Institute of Management & Computer Technology, Kanpur, Varman, Rahul.

118. A Decision-Making Framework for IT Outsourcing using the Analytic Hierarchy Process, Annual conference of International Academy of Business and Economics, Las Vegas, Nevada, 15-18 Oct 2006, Bansal, Veena.
119. Evaluating Effectiveness of Computing Facilities in Academic Institutes, International Conference on Software and Data Technologies, Portugal, Sep 11-14, 2006, Bansal, Veena.
120. Invited lecture on Software Project Management at Bharti Vidya Pheeth for their faculty, New Delhi, Dec 2006, Bansal, Veena.
121. Innovation for Strategy Creation and Implementation, invited seminar at Iran Oil Company, Iran, 10 June 2006, Arun P Sinha.
122. Location Decisions -A case of IIT location in Andhra Pradesh , Invited Lecture , Osmania University , Hyderabad Feb 12, 2007, Ashok K Mittal.
123. Text Mining for patents, Invited Lecture, National Workshop on Marketing Intelligence VIT Vellore Feb 19-20, 2007, Ashok K Mittal.
124. Intellectual Property Rights and Information Technology, Key note Lecture National conference on Innovation in Information Technology in Education , Kanpur Feb 26- 27,2007, Ashok K Mittal.
125. Research and Relevance : Potential Contribution of A Science and engineering School In Pakistan (Panelist), LUMS Lahore Pakistan January 16-17,2006, Ashok K Mittal.
126. Role of Optimization in Indian Industries (Panelist) RAOTA -2006 Delhi Oct 27-28, 2006, Ashok K Mittal.
127. Indo- US workshop on Computational Optimization and Application (Panelist) IIT Kanpur Feb 6-9,2007, Ashok K Mittal.
128. Two lectures each on Transport Phenomena in Porous Media and Measurements in Turbulent Flow, delivered at Department of Mechanical Engineering, Jadavpur University, Kolkata on 12th and 13th January 2007, K.Muralidhar.
129. Curious consequences of simple sequences - an invited lecture in CYLPS programme of CSIR at CMERI, Durgapur, and in the summer programme in Civil Engg. Dept. at IIT Kanpur, 2006, A.K. Mallik.
130. Delivered 4 lectures on chaotic dynamics and two popular lectures in Indian Academy of Science sponsored summer school held at IIIT, Hyderabad, 2006. A.K.Mallik.
131. From natural numbers to numbers and curves in nature, lecture delivered at Physics Dept. IIT Kanpur in the Horizon series. 2006, A.K.Mallik.
132. Eight lectures on nonlinear ordinary differential equations - delivered at SERC school on Nonlinear Dynamics held at IACS, Kolkata, during December, 2006, A.K.Mallik.

133. From natural numbers to numbers and curves in nature, lecture delivered at Mechanical Engineering Department, BESUS, February 3, 2007, A.K.Mallik.
134. Optimization problems in elementary geometry - lecture delivered at Techkriti festival at IIT Kanpur, February 23, 2007, A.K.Mallik.
135. Interplay between Theory and Experiment - lecture delivered at REACH Symposium (of IIT Kanpur) held at Timber Trail Heights, March 7, 2007, A.K.Mallik.
136. Academics as Career Option - Keynote address in the NCRSME, held at IIT Kanpur, March 24, 2007, A.K.Mallik.
137. Optimization problems in elementary geometry - lecture delivered in Department of Mathematics, IIT Kanpur, March 28, 2007, A.K. Mallik.
138. Fabrication and characterization of Thermoplastic nano composites, 2nd INDO-JAPAN Joint Seminar On MICRO/NANO MANUFACTURING SCIENCE, IIT Kanpur, India, 2006, J. Ramkumar.
139. Robot Motion Planning: An Overview, Jadavpur University, 25 September, 2006, Bhaskar Dasgupta
140. Characteristics of Two-Dimensional Wake Past a Normal Flat Plate, 33rd National and 3rd International Conference on Fluid Mechanics and Fluid Power, IIT Bombay, Mumbai, December 7-9, 2006, A.K.Saha.
141. PVDF based Smart sensor for sensing slips in Manipulators, IGKAR, August, 2006, Bishakh Bhattacharya.
142. Piezoelectric Smart Materials in Advanced Composites, HBTI, Kanpur, March 2007, Bishakh Bhattacharya.
143. Global Institute of Technology, Jaipur, 2007, A.K.Agarwal.
144. Malviya National Institute of Technology, Jaipur, 2006, A.K.Agarwal
145. Beauty of Materials, 10th March, 2007, Harcourt Butler Technological Institute - Kanpur, India, Kamal K. Kar.
146. Overview of Carbon Nanotube and CNT based Composites, 2nd National Workshop on Smart Materials for the Design of Intelligent Systems, 24th March, 2007, Indian Institute of Technology Kanpur, India, Kamal K. Kar.
147. Recent Trends in Metal Forming, TATA STEEL, July 2006. N.V.Reddy.
148. Chaired a session in ICOMAST-2006 held at Melaka (Malaysia) on Unconventional Machining, V.K.Jain.
149. Chief Guest at National Seminar on Advanced manufacturing Technologies held at MNNIT Allahabad and presented a Key Note Lecture on Evolution of Advanced Machining Processes held during March, 2007, V.K.Jain.
150. Issues in modelling of the mechanical behaviour of polymeric systems, HBTI, Kanpur, S.Basu.

151. Given an invited seminar titled Molecular Metal Silicates, Phosphonates and Hydroxides at Department of Chemistry, IIT Bombay on Dec. 8, 2006, Ganapathi Anantharaman.
152. Modulation of the Ru-Ru Single Bond by Axial Donors in Diruthenium Paddlewheel Complexes; 37th International Conference on Coordination Chemistry (37th ICC) at Capetown on August-2006, J.K. Bera.
153. Chemistry at Axial Sites of the $[\text{Ru}_2(\text{CO})_4]^{2+}$ Core, National Symposium on Current Trends in Chemistry at University of Kalyani on 31st January 2007, J.K. Bera.
154. Interaction of M-M Bond Orbitals with C-H Bond: Route to Agostic and Cyclometallated Complexes; Modern Trends in Inorganic Chemistry-XI (MTIC-XI) at IITD on December-2005, J.K. Bera.
155. Ligand-Centered Reduction Steps in $[\text{M}_2(\text{pyNP})_2]^{n+}$ Units (M = Mo, Re, Ru, Rh); 3rd Singapore-India Collaborative and Cooperative Chemistry Symposium (3rd SInCCC) at IITK on December-2004, J.K. Bera.
156. Ligand-Centered Reduction Steps in $[\text{M}_2(\text{pyNP})_2]^{n+}$ Units (M = Mo, Re, Ru); at IITG on December-2004, J.K. Bera.
157. Intra and intermolecular vibrations and hydrogen bonds in aqueous systems: A quantum simulation study, Indian Association for the Cultivation of Science, November 27, 2006, A. Chandra.
158. Hydrogen bonds and vibrational spectra of clusters, fluids and interfaces, IIT Kharagpur, January 04, 2007, A. Chandra.
159. Multi-site Coordination ligands Supported on Stannoxane cores 37th ICC, Cape Town August 13-18th 2006. Lecture on August 17th 2006, V Chandrashekar.
160. Inorganic and Organometallic Polymers and Dendrimers. Refresher course at BHU, October 5 2006, V Chandrashekar.
161. Multiple bonds between main-group elements. Refresher course at BHU, October 5 2006, V Chandrashekar.
162. A lecture on NMR. VSSD College, Kanpur. 10th October 2006, V Chandrashekar.
163. Playing With Tin Drums: A Story of Organostannoxanes. IIT Bombay 19th October 2006, V Chandrashekar.
164. Organometallic and Transition Metal Assemblies based on Stannoxane Phosphonates. International Conference in Emerging Trends in Chemical Sciences on the occasion of 150th anniversary of University of Mumbai, Mumbai. Jan 24th 2007, V Chandrashekar.
165. Nanodimensional organostannoxane assemblies. 1st Indo-UK Joint symposium on Chemical Sciences. CRSI-RSC meeting. New Delhi. Feb 1 2007, V Chandrashekar.

166. Supramolecular and Self-Assembly Materials. IITK REACH Symposium. March 7-10, 2007. Timber Trail Hights, Parwanoo, Himachal Pradesh, V Chandraskehar.
167. Towards Higher Resolution Microscopy through Sensitive Two-Photon Absorption Measurements, Debabrata Goswami, First Asian Spectroscopy Conference, Indian Institute of Science, Bangalore, Jan 29 - Feb 2 (2007), D Goswami.
168. Shedding a little Light on the Vision of Quantum Computing, Debabrata Goswami, Indo-US Shared Vision Workshop on Soft, Quantum and Nano Computing, Dayalbag Educational Institute, Agra, February 22 (2007) , D Goswami.
169. On the Evolution of Coherence in Adiabatic Single-Pulse versus Phase-Locked Multi-Pulse Control, Debabrata Goswami, Spectroscopy and Dynamics of Molecules and Clusters, Corbett National Park, Uttaranchal, 23-25 February (2007) , D Goswami.
170. Implementing Adiabatic Quantum Computing, Debabrata Goswami, Symposium on Quantum Information, School of Physical Sciences, JNU, Delhi, March 16-17 (2007) , D Goswami.
171. Molecules to Materials: Design, Synthesis, spectral characterization and possible applications of Imidazolin-5-ones, IIT Madras, June 2006, R. Gurunath.
172. Degradation of N,N dimethylformamide by a paracoccus species.- Kanpur University, 19th February 2007, R. Gurunath.
173. Strategies and Problems in the synthesis of selenium containing peptides, The First Indian Peptide Society Symposium, Hyderabad 23 Feb 2007, R. Gurunath.
174. Department of Chemistry, Devi Ahilya University, Indore March 15, 2007, B D Gupta.
175. Invited lecture at Institut fuer Chemie und Biochemie, Freie Universitaet Berlin, Organische Chemie, Takustr. 3, D-14195 Berlin, Germany: (June 9, 2006), F.A. Khan.
176. Invited lecture at Institut für Chemie, Abteilung Organische Chemie, Universität Rostock, Albert-Einstein-Str. 3a, 18059 Rostock, Germany: (June 16, 2006), F.A. Khan.
177. Invited lecture at Institute of Organic Chemistry, University of Tuebingen, Auf der Morgenstelle 18, 72076 Tuebingen, Germany: (June 20, 2006), F.A. Khan.
178. Invited lecture at Institute of Organic Chemistry, University of Hanover, Schneiderberg 1B, D-30167 Hanover, Germany: (June 27, 2006), F.A. Khan.
179. Invited lecture at Dept of Organic Chemistry, Dortmund University, Otto-Hahn-Strasse 6, D-44227 Dortmund, Germany: (June 28, 2006), F.A. Khan.
180. Invited talk on Supramolecular Chemistry, NCCT-2006 (National Convention of Chemistry Teachers), Kottayam, October 28-30, 2006, J. N. Moorthy.

181. Coordination Chemistry of Pyridine Amide Ligands: Structures and Properties, Department of Chemistry, Stanford University, USA (April 18, 2006), R. N. Mukherjee.
182. Synthesis, Structure and Reactivity of Iron and Vanadium Complexes of Meso-hydroxy Octaethylporphyrin, Presented on 7th March, 2007 in the department of Chemistry and Chemical Technology, Vidyasagar University, West Bengal, S. P. Rath.
183. Noncovalent Interactions, Tata Institute of Fundamental Research, Mumbai October 11, 2006, N. Sathyamurthy.
184. Invited talk on September 19, 2006 at Lilly, Indianapolis, U.S.A., V. K. Singh.
185. Invited Lecture at CHUL Research Center, September 22, 2006, Quebec city, Canada, V. K. Singh.
186. Invited lecture at a Symposium Current Trend in Chemistry held during March 24-25, 2007 at BHU, Varanasi, V. K. Singh.
187. Quantum routes to energy flow: lessons from Classical mechanics?, Goa, India, April 2006, K. Srihari.
188. Does Vibrational Energy Flow fill the Molecular State Space?, Theoretical Chemistry Symposium, Trichy, India, December 2006, K. Srihari.
189. Molecular Vibrations, IITK-REACH Symposium, Parwanoo, India, March 2007, K. Srihari.
190. Postmodern Rate Theories? CHEMFEST, IITK, March 2007, K. Srihari.
191. Department of Chemistry, IIT Delhi, 5th April, 2006, Y.D. Vankar.
192. Department of Chemistry, Universität Konstanz, Konstanz, Germany, May 8, 2006 under INSA-DFG exchange programme. Delivered a lecture titled Synthetic endeavors towards glycosidase inhibitors and glycosamino acids, Y.D. Vankar.
193. Department of Organic Chemistry, Universität Tübingen, Germany, May 10, 2006, Y.D. Vankar.
194. Department of Organic Chemistry, Universität Mainz, Germany, May 12, 2006, Y.D. Vankar.
195. Department of Organic Chemistry, Universität Stuttgart, May 15, 2006, Y.D. Vankar.
196. Department of Organic Chemistry, Universität Potsdam, May 17, 2006, Y.D. Vankar.
197. Department of Organic Chemistry, Freie Universität, Berlin, May 19, 2006, Y.D. Vankar.
198. Department of Chemistry, Universität Dresden, May 22, 2006, Y.D. Vankar.
199. Indian Institute of Chemical Biology, Kolkata, June 14, 2006, Y.D. Vankar.
200. Apotex Pharma Chem Inc., Brantford, Ontario, Canada, July 31, 2006, Y.D. Vankar.

201. School of Chemistry, University of Hyderabad, Hyderabad (October 2006) , Y.D. Vankar.
202. Department of Chemistry, IIT Guwahati, Guwahati (January 17, 2007) , Y.D. Vankar.
203. Delivered two lectures at Government Model College, Jabalpur on September 16, 2006: 1. Modern reagents in organic synthesis 2. Carbohydrates: Much more than mere source of energy, sponsored by the Indian Academy of Sciences, Y.D. Vankar.
204. Self-assembling triskelion peptide elements. Current Trends in Chemistry, Banaras Hindu University, March 24-25, 2007, S. Verma.
205. Gyrotactic Bioconvection simulations, Engineering Mechanics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, Ghorai, S.
206. Isometric multipliers of vector-valued function spaces, University of Lucknow, Aug.19,2006, Tewari, U.B.
207. Completely bounded multipliers on Fourier Algebra, Conference on Harmonic Analysis ,Dec. 22-24,2006 at IIT Kanpur, Tewari, U.B.
208. Improved estimation of parameters in linear regression models, at Deutsches Zentrum fur Luft-und Raumfahrt e.V. (DLR), Institute of Spce Simulation, Koln, Germany in August 2006, Shalabh.
209. Consistent estimation of regression coefficients in replicated ultra structural mode, at Department of Mathematics and Computer Science, University of Kassel, Kassel, Germany in November, 2006, Shalabh.
210. Current trends in differential equations, Lectures series delivered in the orientation programme of the inverts institute of engineering technology, Bareilly, Sept. 1-2, 2006, Bahuguna, D.
211. Perfusion Quantitation Using fast 3D-SPGR DCE-MRI in CME on Clinical Application of newer MRI techniques in neurosciences February 2007, S. G. P. G. I.of Medical Sciences, Lucknow Rathore, R. K. S.
212. Image Processing for DTI and Tractography' in CEP on Imaging Techniques In Life Sciences, February 2007, Institute of Nuclear Medicine & Allied Sciences, Delhi Rathore, R. K. S.
213. Adaptive smoothing in nonparametric classification, University of Calcutta, 31st December, 2006, Ghosh, A.K.
214. Adaptive nearest neighbor classifier. Indian Statistical Institute, 4th January, 2007, Ghosh, A.K.
215. Overview of Finite Difference Methods for Partial Differential Equations (02 lectures) at University of Pune, October 2006, Kadalbajoo, M.K.
216. Uniformly Convergent Difference Methods for solving Burgers' Equation, IIT Bombay, October 2006, Kadalbajoo, M.K.

217. An overview of Finite Difference Methods for PDE's (02 lectures) IIT Madras, December 2006, Kadalbajoo, M.K.
218. Finite Volume Methods for PDE's IIT Madras, December 2006, Kadalbajoo, M.K.
219. Finite Volume Methods for Hyperbolic Conservation Laws, M.S. University, Baroda, January 2007, Kadalbajoo, M.K.
220. On sequence spaces in the department of mathematics, University of Addis Ababa, Ethiopia on Dec. 7, 2006, Gupta, M.
221. Banach spaces of entire sequences and their Kothe duals, Gupta, M., Pradhan, S.
222. Consistent Estimation of Regression Coefficients I Measurement Error Model under Exact Linear Restrictions in 4th International Workshop on TLS and Errors-in-Variables modeling, Aug. 21-23, 2006. Garg, G.
223. Voxel wise exact T Estimation for Accurate Quantitation of Perfusion Indices using Fast 30-SPGR in Intracranial Mass Lesion, ISRM 14th Scientific Meeting & Exhibition Scattle, Washington, USA from 6-12, Singh, A.
224. Banach spaces and their applications in analysis at Miami University, Ohio from May 22-May 28, 2006, Acharya, L.R.
225. A DTI Analysis tool and another Newton-Raphson method for in vivo 'H MRS Data, ESMRMB 23rd Scientific meeting, Warsaw, Poland, 21-23 September 2006, Purwar, A.
226. De-scalping of the brain in echo planar DT-MRI, ISMRM 14th Scientific meeting & Exhibition, Scattle, Washington, USA, Sarma, M.K.
227. Higher Order Finite Difference Methods for Second Order Singularly Perturbed Delay Differential Equations SIAM conference on computational science and engineering during 17th-23th Feb. 2007, Ramesh, V.P.
228. On Double Diffusive natural convection in wavy porous enclosure under the influence of soret and dufour effect, ICAPM-2006, May 28-Jun 4, Marrakech, Morrocco, B.V. Rathish Kumar et al
229. Unusually Stabilized WEBS-FEA of generalized Stokes Equations based on static condensation of quadratic Bubbles, MAFELAP 2006, June 12-16, Brunel University, London, B.V. Rathish Kumar, V.V.V.S.Kumar, P.C.Das
230. Parallel mesh division algorithm for general linear two point boundary value problems, Int. Symposium on parallel computing in electrical engineering, PARALEC'06, pp.412-420, 2006, Rajesh Bawa, B.V. Rathish Kumar, Tanu Gupta,
231. Numerical simulation of thermal hydraulics in ADSS Model, EUA4#19-EUAXevent, 2006, IAC-CNR, ROMA, ITALY, B.V. Rathish Kumar, Arul Praksh, G. Biswas,
232. Strong Law for the Largest Nearest-Neighbor Link on Exponentially Distributed Points, 2nd IMT-GT Regional Conference on Mathematics, Statistics and Applications, Universiti Sains Malaysia, Penang, Malaysia (June 2006) Bhupendra Gupta & Srikant K. Iyer.

233. A parameter free numerical method for solving singularly perturbed turning point problem having two boundary layers on a non-uniform mesh in the Fourteenth International conference of the Forum for Interdisciplinary Mathematics-CMASM-2007-FIM XIV at IIT Madras during 6-8 January 2007 Vikas Gupta & M.K. Kadalbajoo.
234. Instabilities in superconductors and mapping megagauss magnetic fields associated with laser plasma interactions. S. N. Bose National Center for Basic Sciences, Kilkata, 30th March, 2007, Satyajit Banerjee
235. Intense microwave plasmas for focused ion beams, Variable Energy Cyclotron Center, Kolkata, April 06, 2006, Sudeep Bhattacharjee
236. Intense microwave plasmas for ion source application", Institute for Plasma Research, Gandhinagar, November 08, 2006, Sudeep Bhattacharjee
237. Traffic of interacting molecular motors: effects of single motor mechano-chemistry, Max-Planck Institute for Cell Biology and Genetics, Dresden, Germany, May, 2006, D Chowdhury.
238. Interacting self-propelled particles: from molecules to vehicles, Harish-Chandra Research Institute, Allahabad, December 11, 2006, D Chowdhury.
239. Molecular Machines, Physics Department, Banaras Hindu University, Varanasi, February 08, 2007, D Chowdhury.
240. "Traffic of molecular motors on filamentary tracks" Physics Department, Banaras Hindu University, Varanasi, February 09, 2007, D Chowdhury.
241. "Molecular motor traffic on intra-cellular filamentary tracks" Forschungszentrum, Julich, Germany, March 08, 2007, D Chowdhury.
242. Effect of long-range connections on an infinite randomness fixed point, Statphys-Kolkata VI, Raichak, 5th January, 2007, Amit Dutta
243. Long-range connections, contact processes and disorder correlation, Department of Physics, Indian Institute of Technology Kanpur, 23rd February, 2007, Amit Dutta
244. Long-range connections and contact processes, S. N. Bose National Center for Basic Sciences, Kolkata, 6th March, 2007, Amit Dutta
245. Heavy fermion behaviour in YbIr_2Si_2 and Quadrupolar order in YbRu_2Ge_2 , University of Koln, Germany, 11 October 2006, Z. Hossain.
246. Physics Colloquium: Crystal Field Effect, Magnetism and Superconductivity of Pr-Compounds, Max-Planck Institute for Chemical Physics of Solids, Dresden, Germany, 16 November 2006, Z. Hossain.
247. Invited talk " Current Status of Ultra High Energy Cosmic Ray's at DAE particle physics symposium at IIT Kharagpur, December 11-15, 2006, Pankaj Jain.
248. Composite structure and causality, Institute of Physics, Bhubaneswar, March 08, 2007, S.D. Joglekar.

249. Spin Fluctuations in the Triangular-Lattice Antiferromagnet Institute of Physics, Humboldt University, Berlin, 26 April 2006, Avinash Singh.
250. Spin Dynamics in the Diluted Ferromagnetic Kondo Lattice Model Institute of Physics, Humboldt University, Berlin, 17 May 2006, Avinash Singh.
251. Clustering Induced Suppression of Ferromagnetism in Diluted Magnets Institute of Physics, University of Regensburg, 12 Sep. 2006, Avinash Singh.
252. Spin Dynamics in Diluted Magnetic Semiconductors Indian Institute of Technology Roorkee, 31 Oct. 2006, Avinash Singh.
253. Correlation Effects in a Band Ferromagnet—Goldstone-mode Preserving Investigation with Self-Energy and Vertex Corrections Indian Institute of Technology Roorkee, 2 Nov. 2006, Avinash Singh.
254. Recent Developments in Rayleigh Benard Convection, National Conference on Nonlinear Systems and Dynamics-2006, Chennai, 2006, M. K. Verma.
255. Dynamo Using Turbulent Energy Fluxes, in International Solar Workshop on Transient Phenomena on the Sun and Interplanetary Medium, Nainital, 2005, M. K. Verma.
256. Negative refractive index and optical anti-matter., Institut Fresnel, Universite Aix Marseille. I, France, 05 May 2006, S. A. Ramakrishna.
257. The time of sojourn for a wave traversing a material medium., Institut Fresnel, Universite Aix Marseille . I, France, 19 May 2006, S. A. Ramakrishna.
258. Negative refractive index and optical anti-matter., Department of Applied Mathematics, University of Liverpool, Liverpool, UK, 24 May 2006 , S. A. Ramakrishna.
259. Delay times for pulses in plasmas and negative index media., The Blackett Laboratory, Imperial College London, 26 May 2006, S A Ramakrishna.
260. Colloquium on Negative refractive index and optical anti-matter., Nanophotonics and Metrology Laboratory, Ecole Polytechnique de Lausanne, Switzerland, 12 June 2006, S A Ramakrishna.
261. Delay times for pulses in plasmas and negative index media., Department of Physics, Unversity of Geneva, Switzerland, 22 June 2006, S A Ramakrishna.
262. Seminar on Manipulating light with negative refraction. Institute of Microtechnology, University of Neuchatel, Switzerland, 12 July 2006, S A Ramakrishna.
263. Colloquium on Physics of Negative refractive index materials., Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, 21 Dec. 2006, S A Ramakrishna.
264. Negative refractive index on metamaterials at Optical frequencies., Raman Research Institute, Bangalore, 22 Dec. 2006, S A Ramakrishna.
265. Colloquium on Metamaterials and negative refractive index., Birla Institute of Technology and Science, Pilani, 06 March 2007, S A Ramakrishna.

266. Embedded Nanoscale Heterostructures for Photoelectronic Applications, Indo-Japanese NanoSc Mfg, 19 December 2006 IIT Kanpur India, Y. N. Mohapatra.

OTHER ACTIVITIES

(A) TECHNOLOGY DEVELOPED

1. On-going developmental work on synthesis and trial of silver particle embedded granular activated carbon (GAC) filter as antibacterial agent in drinking water filtration and purification systems, in collaboration with Filtrex Technologies Pvt. Ltd., Bangalore, R. Bandyopadhyaya.
2. On-going developmental work on synthesis and tuning of superparamagnetic iron-oxide nanoparticle suspension, to be used as enhanced contrast agent for MRI diagnosis of disease, in collaboration with SGPGI, Lucknow, R. Bandyopadhyaya.
3. Developed - A method for generating small scale structures via pattern miniaturization using hydrogel. (Applied for Patent), A. Ghatak.
4. Developed - A method for generating small scale structures via pattern miniaturization using hydrogel. (Applied for Patent), A. Ghatak and A. Sharma.
5. A Pilot Plant for the technology developed in ARRPET project is running at Vapi, Gujarat since June 2006. Funding for construction, operation and maintenance of the pilot plant has been provided by Vapi Waste & Effluent Management Co. Ltd., S. Guha.
6. Wake-on-WLAN technology for remote switch on/off (see WWW'06 publication for details), Bhaskaran Raman.
7. The BriMon system for Railway Bridge Monitoring, Bhaskaran Raman.
8. SIMRAN Technology, B.M. Shukla.
9. Train Partition Notification Technology, B.M. Shukla.
10. Track Detection, B.M. Shukla.
11. Smart Card projects: Department of CSE is involved in the specification and development of the operating systems for smart cards. A major success story is the development of SCOSTA operating system for the smart cards. This operating system has been adopted for the use in Driving Licenses, Vehicle Registration Certificates and Multi-purpose National Id card, all based on the smart cards. Lately, a standard has been developed for the smart cards to be used in the electronic passport. In addition to these, various applications have been developed around the smart cards. These include the personalization system for the driving licenses and vehicle registration system (jointly with NIC),

personalization system for the national ID card (jointly with the NIC), multi-purpose Identity card IIT Kanpur including applications such as attendance, library, club memberships etc. Department received another big project from the Ministry of Communication and Information Technology on the standardization and development of readers for the smart cards. The department will be developing hand held readers which can be deployed in the field for working with the smart cards such as those listed above, Rajat Moona.

12. The department is involved in the development of postal bag tracking along with CDAC Noida through a project funded by the Ministry of Communication and Information technology. In this project, the RFID based technologies are to be developed for automatic tracking of the speed post articles across various transit mail offices. In the pilot project, the mail that flows between Delhi and Bombay will be tracked, Rajat Moona.
13. Low power MOSFET based inverter; Status: packaging in progress, P. Sensarma.
14. IGBT gate drivers with inherent short-circuit protection scheme and isolation (2 kV) for Voltage Source Inverters; Status: beta testing in progress, P. Sensarma.
15. Removal of Scratches, Blotches and color fading in old Motion picture films, Ready for Transfer, S. Gupta.
16. True Zoom, Multiview Image Format. Some more Development Needed, K. S. Venkatesh.
17. Anthropological Security: Ready for Transfer, K. S. Venkatesh.
18. Laser Pointer Based HCI: Ready for Transfer, K. S. Venkatesh.
19. Laser Assisted Visual Metrology Applications: Under Development, K. S. Venkatesh.
20. Wake-on-WLAN (Remotely wakes up wireless LAN devices and hence helps save considerable power), Further development needed, K. Chebrolu.
21. BriMon (Structural health monitoring tool for bridges), Further development needed, K. Chebrolu.
22. Pain Monitor. Tested on many patients by Dr. Gautam Das, Specialist on pain management, G. C. Ray.
23. A working prototype developed for the measurement of Laser Range finder based Angle of Attack and Tracking Position of Rail axles for the Indian Railways as part of the project on "Trackside Bogie Monitoring System". Further development required before technology transfer, J. John.
24. UHF RFID tag antenna, prototypes are undergoing testing at the partnering organization, A. R. Harish.
25. Visibility Measurement of Fog, under the TMRS-Fog Vision Instrumentation.
26. Powder Metallurgical Processing of SILVAR composites for thermal management application in communication satellites developed in collaboration with Mr. A. Pathak and his team at Space Application Center (SAC), Ahmedabad. This project

- was undertaken under the aegis of ISRO-IITK Space Technology Cell, A. Upadhyaya.
27. Low temperature Synthesis of Nd-doped Bismuth Titanate Nanoparticles, Ashish Garg.
 28. Mathematical modeling and computational analysis of large-dof robot manipulators: B. Dasgupta
 29. Development of Foil Air Bearing for Air Cycle Machine. Technology transferred to HAL, Lucknow. The product is at the phase of manufacturing and testing, S.Sarkar
 30. Developed an autonomous robot with a sensor probe for detecting surface features inside a closed conduit, the technology will be delivered to the Naval Armament Board, Bishakh Bhattacharya.
 31. Developed a novel turn-indicator using Shape Memory Alloy with auto-shut off mechanism for General Motors, Bishakh Bhattacharya.
 32. Straight Vegetable Oil (SVO) for direct use in compression ignition engines, A.K. Agarwal.
 33. Fabricated solar photovoltaic cells with imidazolin-5-ones. These are biodegradable and currently being optimized, R Gurunath.

(B) SOFTWARE DEVELOPED

1. Title of the software, Ready for Transfer/further development needed, S. Guha.
2. Limulator, Available for download at <http://home.iitk.ac.in/~blohani/download.htm>, further being developed to make it more comprehensive, B. Lohani.
3. LAS-Converter, Available for download at <http://home.iitk.ac.in/~blohani/download.htm>, further will be developed on the basis of feedback on present version, B. Lohani.
4. Horoscope Program, B. M. Shukla.
5. On Line Project Management, B. M. Shukla.
6. STD & PIN Code Dictionary, B. M. Shukla.
7. Address Book Software for Motorola C650 Model, B. M. Shukla.
8. HP iPAQ 6315 based way point logger cum way point arrival notification system.
9. Multi Lingual Web based Transliteration Software, B. M. Shukla.
10. Multi Lingual Web based Transliteration Software, B. M. Shukla.
11. On Line Web Based Library Automation System, B. M. Shukla.
12. Pickpacket v2: Network Monitoring Tool, More improvement one over the last year's version (Ready to be transferred.), Dheeraj Sanghi.

13. Fingerprint Separation s/w and GUI Interface, Ready for Transfer, P. K. Kalra.
14. Audio separation s/w and GUI Interface, Ready for Transfer, P. K. Kalra.
15. Image compression s/w and GUI Interface, Ready for Transfer, P. K. Kalra.
16. Day Ahead Auction Software for Power Exchange, Ready for Transfer, P. K. Kalra.
17. Brihaspati, Y. N. Singh.
18. Platform for measuring 802.11 Link performance, Ready for transfer, Ilamparidhi, Rajesh Kumar, and A.R. Harish Radio wave propagation prediction using ray tracing for indoor wireless application, K. Chebrolu.
19. RF breakdown power prediction in transmission lines, Kalpesh Mehta and A.R. Harish.
20. Generalized scattering matrix method for analysis microwave circuits, Kalpesh Mehta and A.R. Harish.
21. Indoor location sensing using RFID, Arunabh Chattopadhyay and A.R. Harish.
22. Advanced optical microscopy (3D imaging) (developed in house), Sandeep Sangal.
23. "Yantrika", an integrated software package for analysis, design, planning and control of large-dof robot manipulators, almost ready for transfer (trial version already delivered, to IGCAR, Kalpakkam, B.Dasgupta.
24. Developed a software for Shape Control of Space Antenna Structure to be delivered to ISRO, Satellite Centre Ahmedabad. Bishakh Bhattacharya.
25. Developed a LES code for complex geometry, S.Sarkar.

(B) INDUSTRIES VISITED

1. DRDL, Hyderabad, Expert Member on Missile Parameter Estimation, S.K. Gupta.
2. HEMRL, Pune, Expert Aerodynamics for FAE Bomb Design, S.K. Gupta.
3. Hindustan College of Engg., Chennai, Member Panel DST, S.K. Gupta.
4. Visited Indo-Gulf Fertilizers (Jagdishpur, UP) to discuss and finalize sponsored consultancy project of cost Rs. 21 Lakhs on "to develop membrane process based scheme in order to recycle urea plant process condensate after recovering Gases (Ammonia and CO₂) and Urea". Starting Date: November 2006, P.K. Bhattacharya.
5. Visited twice to Transpek-Silox, Vadodara (a multi-national company manufacturing inorganic chemicals) to discuss and finalize sponsored consultancy project of cost Rs. 10 Lakhs on "to develop a scheme for recycling of TSIL biologically treated effluent (300 m³/day) in order to recover water as well as for any discharge to municipal drainage, adhering pollution norms", P.K. Bhattacharya.
6. Chinese Petroleum Corporation, July, 2006 to deliver a seminar and to discuss possible collaboration, J. P. Gupta.

7. Visited College of Engineering, Thiruvananthapuram (Kerala) during March 16-18, 2007 as NBA expert for accreditation of their M.Tech Structural Engineering Programme, Chakrabarti, S.K.
8. Visit to IRC as a member of the committee on Transport Planning, Traffic Engineering and Road Safety, Chakraborty, P.
9. Visit to SVNIT Surat to help them develop an M.Tech. program in Transportation, Chakraborty, P.
10. DTRL-DRDO, Invited for discussion on DTRL projects, 15 February 2007, Lohani, B.
11. Shell Technology India Private Limited, Bangalore; 30th March, 2007. To discuss mutual R7D activities in the area of earth sciences, Sinha, R.
12. TCS Bangalore, CDRI Lucknow, e-Logistics, Chennai, IIIT Jabalpur BIET Jhansi, NBRI Lucknow, RDSO Lucknow, B.M. Shukla.
13. IBM, Bangalore; Intel, Bangalore; IIT, Kharagpur; IISc, Bangalore; Cornell University, Ithaca, NY, USA, Mainak Chaudhuri.
14. IITG, UCSD, CalTech, UCLA, Berkeley, Stanford, CWI, University of ULM, Bellairs Institute, Manindra Agrawal.
15. TVS Motor Company Limited, Chennai, India, Discussion on project proposal titled "Engine Testing", P. K. Kalra.
16. Bajaj (Automobiles unit), Pune, India, Discussion on project proposal titled "Engine Testing", P. K. Kalra.
17. Mahindra & Mahindra, (Automobiles unit), Nasik, India., Discussion on project proposal titled "Engine Testing", P. K. Kalra.
18. NCDEX, Mumbai, India, Conceptualizations of Power exchange, P. K. Kalra.
19. Visited Institute of Engineering Tribhuvan University Nepal, 8-9 Jan. 2006, S. C.,Srivastava.
20. Visited Hong Kong Polytechnic Univ. Hong Kong during 1-2 Nov. 2006, S. C.,Srivastava.
21. Visited Asian Institute of Technology Thailand during 3-4 Nov. 2006, S. C.,Srivastava.
22. Visited Crompton Greaves of India Ltd. ,Kunjur Works, Mumbai for research collaboration in December 2006, S. C. Srivastava.
23. BHEL, Bhopal, Sensarma P.
24. Visited Indira Gandhi Center for Atomic Research. Discussed problems of mutual interest, R. Potluri, September 2006.
25. Industrial visit to study distributed control systems in the following industry: Alumina Refinery plant of HINDALCO Renukut, 1 day, R. Potluri., Captive Power plant of HINDALCO, Renusagar, 1 day, R. Potluri., NTPC Shaktinagar, 1 day, R. Potluri, October 03 - 05, 2006.
26. Crompton Greaves, Mumbai, to discuss research possibility, N. Gupta.

27. BHEL, to discuss possibility of research collaboration, N. Gupta.
28. CPRI, Bangalore, to establish collaboration, N. Gupta.
29. ZEE Broadcasting Corporation, Collaboration activity, S. Gupta.
30. City University of New York for Research Collaboration (Dec.8 – Dec.25th 2006), S. Umesh.
31. Visit to RDSO, Lucknow in connection with the field trials and interactions with railway engineers on the Trackside Bogie Monitoring System project under the Technology Mission on Railway Safety. One visit per month from April 2006 to March 2007, J. John.
32. Visited NTU Singapore during December 03 – 16, 2006 for exploring possible technical collaboration. Delivered two lectures on Fractal Antennas and Chaos at Microwave Frequencies, A.R. Harish.
33. Visited the Div. of Communication Engineering, School of EEE, Nanyang Technological University, Singapore as TCT Fellow during May 06-June 06, Anjan K. Ghosh.
34. Visiting the Telecomm Systems Program, School of electrical and computer engineering, University of Oklahoma, Tulsa as a visiting Professor from July 06-Aug08, Anjan K. Ghosh.
35. Mazandran University of Science & Technology, Iran, J. Chatterjee.
36. Tampere University of Technology, Finland, J. Chatterjee.
37. London School, of Economics, U.K. , J. Chatterjee.
38. Curtin University of Technology, Sydney Campus, Australia, J. Chatterjee.
39. International Management Institute, New Delhi, India, J. Chatterjee.
40. Management Development Institute, Gurgaon, India, J. Chatterjee.
41. National Knowledge Commission, New Delhi, India, J. Chatterjee.
42. Indian Council of Agriculture Research, New Delhi, India, J. Chatterjee.
43. Centre for Management of Innovation and Technology, New Delhi, India, J. Chatterjee.
44. University of a Kassel, Germany, J. Chatterjee.
45. Indian Institute of Management, Kolkata, India, J. Chatterjee.
46. Bankers' Institute of Rural Development, Lucknow, India, J. Chatterjee.
47. ICRISAT, Hyderabad, India, J. Chatterjee.
48. Innovation Management Institute, Helsinki, Finland, J. Chatterjee.
49. I I M Khozhikode, Kerala, India, B.V.Phani.
50. Invited as Visiting Faculty by Department of Psychology, Osmania University, Hyderabad to give lectures on Multivariate Statistical Methods, February 26-March 03, 2007, Narendra K. Sharma.
51. Tubular Microwave Sintering Furnace with Inert and Reducing Gas Flushing for Sintering Metallic Samples (filed, 2006), Upadhyaya and G. Swaminathan.

52. Rare-Earth Oxide Dispersed Sintered Stainless Steels (REO-Steels),(filed, 2006), Upadhyaya, R. Balasubramaniam, and J. Shankar.
53. Process for drilling contoured deep hole in super alloys using STED to enhance cooling in turbine blades, (Applied for, January 2007), V. K. Jain, D. S. Bilgi, A. V. Kulkarni, A. Chavan, R. Shekhar.
54. Low temperature Synthesis of Nd-doped Bismuth Titanate Nanoparticles, Indian Patent Application No. 804/DEL/2007, Prem Prakash, Ashish Garg, Mukesh Kumar Roy and Harish Chandra Verma.
55. Synthesis of Nanocrystalline Iron Carbides by Reaction Milling in a Dual Drive Planetary Mill, (2006), D. Chaira, S. Sangal, B.K. Mishra.
56. Visited Dept. of Mechanical Science and Engineering, Nagoya University, Japan For teaching and research from 1st May 2006 to 31st March 2007, A. Dutta
57. ISRO Satellite Centre, 1-3 Jan 2007 for discussion on projects, B. Dasgupta.
58. Visited University of Verona, Italy on an Indo-Italian Joint Project on development of shear sensors for robotic manipulators in September 2006, period 2 weeks. Bishakh Bhattacharya.
59. Visited University of Illinois at Urbana Champaign and University of California at Irvine on an Indo-US project on development of micro-gripper manipulator using IPMC, period 10 Days, Bishakh Bhattacharya.
60. Visited Mahindra and Mahindra Ltd, Nashik, June 2006, A.K. Agarwal.
61. Visited TATA STEEL, July 5-6, 2006, December 4-5, 2006, N.V. Reddy.
62. Visited Northwestern University under Indo-US center on Advanced Manufacturing (May-June, 2006), N.V. Reddy.
63. Visited University of Electrocommunications, Tokyo, University of Shizouka, Hamamatsu, Suzuki Motors, Iwata, Hamamatsu Photonics, Hamamatsu, October 2006, N.V. Reddy.
64. Visit to Indian Institute of Science for Research data collection in 17-23, August 2006, R. Gurunath.

(D) PATENTS

1. Profile measurement machine (filed for patent), C. Venkatesan.
2. Micro- and sub-micro patterning of soft solids and articles formed thereof, Indian patent (2787/DEL/2005) and PCT/IN/0600108 filed on March 28th, 2006 (A. Sharma, M. Gonuguntala, S Subramanian and R. Mukherjee).
3. Pressureless Room Temperature Micro- and Sub-micro Patterning of polymer Films Coated on Planar or Curved Surfaces Using Patterned Flexible Foils as

- Stamp and Articles Formed Thereby, Indian Patent 1519/DEL/2006 filed on June 28th, 2006 (A. Sharma, Rabibrata Mukherjee, Danish Faruqui and Ganesh Patil).
4. Generation of Submicron to Macroscopic Patterns and Objects by Successive Miniaturization Using Shrinkable Materials and Articles Formed Thereby, Indian Patent 522/DEL/2007 filed on March 09, 2007 (A. Ghatak, A. Sharma, A. L. Das, R. Mukherjee, V. Katiyer, M. Kulkarni).
 5. Liquid-solid radially cross-flow multi-stage fluidized bed contactor, IPA No.830/DEL/2007, N. Verma.
 6. Compiling memory dereferencing instructions from software to hardware in an electronic design, US Patent Grant No. 7,203,912, Rajat Moona.
 7. Repartitioning performance estimation in a hardware-software system, US Patent Grant No. 6,856,951, Rajat Moona.
 8. Area optimization of hardware for algorithms by optimizing sizes of variables of the algorithm, US Patent publication no. 20060020574, Rajat Moona.
 9. Indian Patent titled "Improved Single Phase Phase-Locked-Loop" filed on Feb 20, 2007, Application No. 349/DEL/2007, P. Sensarma.
 10. A low complexity symbol timing estimator for MIMO Modem using two samples per symbol (Pending award of patent), A. K. Chaturvedi and Ketan Rajawat.
 11. Power Supply for Personal Computers, in place of the Conventional SMPS and UPS. (Pending award of patent), K. S. Venkatesh.
 12. 933/DEL/2006"Organic photovoltaic cells with thin films of carbon nano-tubes p-n junctions"31-03-2006.Co-inventor:Arun Tej Mallajosyula, S.K.Iyer.
 13. Dielectric Resonator, Publication No. :US2006/0097826 A1, Publication Date: May 11, 2006, Kumar Vaibhav Srivastava, Vishwa V. Mishra and Animesh Biswas, Appeared in : <http://www.uspto.gov/patft/>.
 14. Wide Band Loop Antenna, Patent Application No. 1594/DEL/2006 Dated: 07-07-2006, A.R. Harish and Ravi Kumar Joshi.
 15. Curved deep hole drilling using Shaped Tube Electro Drilling (Applied) V.K.Jain
 16. Pulsating flexible magnetic abrasive brush for super finishing, V.K.Jain.
 17. Magnetorheological abrasive flow finishing process and device therefore V.K.Jain.
 18. New media for AFM machining- Indian Patent (filed), J. Ramkumar.
 19. Joining of Dissimilar Pipes thro adhesive joining-Indian Patent (filed) J. Ramkumar.
 20. Novel Technique for Ceramic Ball finishing thro MFP- Indian Patent (filed) J.Ramkumar.
 21. Functionally graded wide-band polymeric composites for microwave absorbers and method of manufacturing same, RFE.NO.:- 737/DEL/2007, Dated 28th March 2007, India (2007), Kamal K. Kar, Ahankari Sandeep Suresh Rao and Animesh Biswas.

22. Functionally graded polymer nanocomposites/composites having crosslinking density variation and their manufacture, RFE.NO.:- 736/DEL/2007, Dated 28th March 2007, India (2007), Kamal K. Kar and Ahankari Sandeep Suresh Rao.
23. Carbon nanotube(s) coated cutting tool(s) and a method for preparation thereof, RFE.NO.:- 735/DEL/2007, Dated 30th March 2007, India (2007), Kamal K. Kar and Ariful Rahman.
24. A novel functionally graded polymer(s)/polymeric nanocomposite(s) [fgp(s)]/fgpnc(s)] having glass transition temperature variation and a process for preparation thereof, RFE.NO.:- 681/DEL/2007, Dated 28th March 2007, India (2007), Kamal K. Kar and Ahankari Sandeep Suresh Rao.
25. Functionally graded magnetic materials and a method for preparation of the same, RFE.NO.:- 680/DEL/2007, Dated 28th March 2007, India (2007), Kamal K. Kar and Ahankari Sandeep Suresh Rao.
26. A novel viscoelastic media used for nano-finishing of materials through abrasive flow machining process and a method of manufacture thereof, RFE.NO.:- 591/DEL/2007 Dated 19TH March 2007, India (2007), Kamal K. Kar, J. Ramkumar and Piyushkumar B. Tailor.
27. Imidazolin-5-ones for photovoltaic applications –patent filed in February 2007, R. Gurunath.

(E) AWARDS AND HONOURS

1. C-Chairman, Organizing Committee, First Indo-US Frontiers of Engineering Symposium (FIE) March 1-5, 2006 Jaypee Palace Hotel and Convention Center, Agra, Sanjay Mittal.
2. Member, International Organizing Committee of ICCM07 & Session Chairman, International Conference on Computational Methods, Hisoshima JAPAN 4-6 Apr 2007), Sanjay Mittal.
3. Shanti Swarup Bhatnagar Prize in Engineering Sciences CSIR 2006, Sanjay Mittal.
4. Fellow Indian Academic Sciences since 2007, Sanjay Mittal.
5. Member Steering Committee Second Indo-US Frontiers of Engineering Symposium (FOE) 2008, Sanjay Mittal.
6. Member, Organizing Committee, REACH Symposium, IIT Kanpur March 7-10 Hotel Timber Trail Heights, Sanjay Mittal.
7. Associate Editor, International Journal of Aerospace Engineering Hindawi, Publishing Corporation since 2007, Sanjay Mittal.
8. INAE Young Engineer Award, A. Ghatak.
9. Invited to join the Editorial Board of 'International Journal of Oil, Gas and Coal Technology', Inter-Science publishers, J.P. Gupta.

10. Associate of Indian Academy of Sciences (2006-2009), Y.M. Joshi.
11. Indian National Science Academy Medal for Young Scientist (2006), Y.M. Joshi.
12. Distinguished Alumnus Award, Indian Institute of Technology, Kanpur (2007). A. Sharma.
13. Elected Fellow, National Academy of Sciences, India (2006), A. Sharma.
14. J. C. Bose National Fellowship, Department of Science & Technology (2006-2010), A. Sharma.
15. Friedrich Wilhelm Bessel Research Award, Alexander von Humboldt Foundation (2006), A. Sharma.
16. RPG Life Science Padma Vibhushan Professor M M Sharma Medal and Chemcon Distinguished Speaker Award of the Indian Institute of Chemical Engineers (2006), A. Sharma.
17. Member of Editorial Advisory Board, Canadian Journal of Chemical Engineering (2006-2007), A. Sharma.
18. Member of Editorial Board, Indian Chemical Engineer (Journal of the Indian Institute of Chemical Engineers; 2006-), A. Sharma.
19. INAE Young Engineer Award for the year 2006. Awarded by the Indian National Academy of Engineering for engineers below the age of 35, V. Shankar.
20. Department of Atomic Energy BRNS Young Scientist Award, 2006, J.K. Singh.
21. Received IRC-Pt. Jawaharlal Nehru Birth Centenary Award - 2005 from the Indian Roads Congress in the 67th IRC Annual Session, held at Panchkula, November 20, 2006, Das.
22. Best Poster presentation award at Map World Forum 2007 to paper 3D visualization of LiDAR data, Coauthored with Ghosh, S., Lohani B.
23. Fellow, Institution of Surveyors India, Lohani B.
24. Fellow, Indian National Academy of Engineering, Elected in September 2006, C.V.R. Murty.
25. S. S. Merh Award from Geological Society of India for contributions in Quaternary Geology, 2006, Rajiv Sinha.
26. Anil Seth, PC member FSTTCS 2006.
27. The poster "Wake-on-WLAN" under the guidance of Kameswari Chebrolu and Bhaskaran Ramana won the best poster award amongst 24 entries from PhD and M. Tech students of IITs, IISc and other premier institutes at the Microsoft Techvista 2007, Nilesh Mishra.
28. IBM Faculty Award, 2006, Mainak Chaudhuri.
29. Godel Prize for 2006, Manindra Agrawal.
30. Fulkerson Prize for 2006, Manindra Agrawal.
31. J C Bose Fellowship, Mainindra Agrawal.
32. IBM Faculty Award, 2006, Prabhakar T.V.
33. Awarded the Fulkerson Prize for the year 2006, Neeraj Kayal and Nitin Saxena.

34. Awarded the Gödel Prize for the year 2006, Neeraj Kayal and Nitin Saxena.
35. Best Presentation Award in IRISS 2007, Barna Saha.
36. The Best Poster/Demo Award at WISARD 2007, Nilesh Mishra, Raj Kumar, Phani Kumar Valiveti and Hemanth Haridas.
37. Project "Autopilot Development for Mini UAV : Hardware Software Co-Design" under the guidance of Prof. Rajat Moona won the FIRST PRIZE in the AES All-India Student Project Contest - 2006 conducted by the IEEE-India AES/Com/LEO Societies Chapter, Mohit Mangal (CSE), Mohit Mundhra (CSE), Gaurav Gupta (EE) and Shobhit Niranjana (EE).
38. Outstanding Ph.D Student award of IBM India Research Lab for the year 2006, Piyush Kurur.
39. Program Chair, APSEC 2006, Pankaj Jalote.
40. General Chair, RE07, Pankaj Jalote.
41. Member International Program Committee Machine Translation Summit 2007 Copenhagen, Denmark, R.M.K. Sinha.
42. Member national Technical Advisory Committee of Centre for Development of Advanced Computing (CDAC), R.M.K. Sinha.
43. Member Working Group on "Technology Development for Indian Languages (TDIL)", MCIT, Govt. of India, R.M.K. Sinha.
44. Member PRSG on OCR and OHR Consortia, MCIT, Govt. of India, R.M.K. Sinha.
45. Member PRSG on English to IL MT Consortia, MCIT, Govt. of India, R.M.K. Sinha.
46. Member IASTED International Technical committee, R.M.K. Sinha.
47. Finance chair, APSEC 2006, Sanjeev Kumar Aggarwal.
48. Finance Chair, RE07, Sanjeev Kumar Aggarwal.
49. Editorial Board of International Journal of Theoretical and Applied Computer Sciences, Sanjeev Kumar Aggarwal.
50. Program Committee member for the International Conference on Computing : Theory and Application (ICCTA' 07), March 5-7 2007, Kolkata, India, Shashank K. Mehta.
51. Elected Fellow, Institute of Electrical and Electronics Engineers (IEEE) for contributions to education in power electronic applications to transmission and distribution systems, A. Ghosh.
52. The Brij Mohan Lal Memorial Prize, Institute of Engineers, Kolkata, India, P.K. Kalra.
53. The Sir Arthur Cotton Memorial Prize, Institute of Engineers, P.K. Kalra.
54. Vice Chairperson, Technical Activities of IEEE India Council for the year 2006, S. C. Srivastava.
55. Invited to join as Member of the State Advisory Committee of the U.P. Electricity Regulatory Commission, S. C. Srivastava.

56. Member, Governing Council of Central Power Research Institute, Bangalore, S. C. Srivastava.
57. Member, Working Sub-group on 'Technology Advancement and R&D in Power' for XI plan, constituted by Ministry of Power, Government of India, S. C. Srivastava.
58. Vice Chairperson, Technical Activities of IEEE India Council for the year 2007, S. C. Srivastava.
59. Re-nominated as Member of the State Advisory Committee of the U.P. Electricity Regulatory Commission for 2007-09, S. C. Srivastava.
60. Elected Humboldt Fellow, S.N.Singh.
61. Elected Fellow of The Institution of Engineers (India)- (FIE) , S.N.Singh.
62. Alexander von Humboldt Research Fellow (May 2004-July 2005), S. Umesh.
63. Member International Program Committee Machine Translation Summit 2007 Copenhagen, Denmark, R. M. K. Sinha.
64. Member national Technical Advisory Committee of Centre for Development of Advanced Computing (CDAC) , R. M. K. Sinha.
65. Member Working Group on "Technology Development for Indian Languages (TDIL)", MCIT, Govt. of India, R. M. K. Sinha.
66. Member PRSG on OCR and OHR Consortia, MCIT, Govt. of India, R. M. K. Sinha.
67. Member PRSG on English to IL MT Consortia, MCIT, Govt. of India, R. M. K. Sinha.
68. Member IASTED International Technical committee, , R. M. K. Sinha.
69. Senior member I.E.E.E, S. S. K. Iyer.
70. Tan-Chin-Tuan Fellowship from Nanyang Technological University, Singapore, Anjan K. Ghosh.
71. Biography included in the book titled, "2000 outstanding intellectuals of the 21 st century" edited by Sara Rains, International Biographical Centre, St. Thomas Place, Ely, Cambridgeshire, CB7 4GG ENGLAND, 2007, Fourth Edition, p. 526, Prof. RRK Sharma.
72. The AMERICAN MEDAL OF HONOR (received medal number 9 out of 100), American Biographical Institute Inc., 5126 Bur Oak Circle, PO Box 31226, North Carolina, 27622, USA. Web : www.abiworldwide.com, Prof. RRK Sharma.
73. Nominated as 2006 Man of The Year, American Biographical Institute Inc., 5126 Bur Oak Circle, PO Box 31226, North Carolina, 27622, USA. Web : www.abiworldwide.com, Prof. RRK Sharma.
74. Biographee, Marquis, Who's Who in Asia, 890 Mountain Ave, Suite 300, New Providence, NJ 07974, United States of America, Prof. RRK Sharma.
75. Biographee, Marquis, Who's Who in Science and Engineering, 890 Mountain Ave, Suite 300, New Providence, NJ 07974, United States of America.

76. International Advisory Council, International Conference on Operations and Quantitative Methods - VII, Jaipur India, Aug 3-5, 2006, Prof. R.R.K. Sharma.
77. Honorary Appointment to Research Council of International Biographical Centre, St. Thomas Place, Ely, Cambridgeshire, CB7 4GG ENGLAND, Prof. R.R.K. Sharma.
78. Invited to Join the Editorial Board of AIMS International Journal of Management, <http://www.aims-international.org/aijm/editorial.htm>, Prof. R.R.K. Sharma.
79. Consulting editor E-Social Sciences; Dr. Varman, Rahul.
80. Associate Editor of International Journal of Technology, Knowledge and Society, The university press, common grounds, Victoria, Australia, Dr. Veena Bansal.
81. President Operational Research Society of India, Prof. Ashok K Mittal.
82. Vice President and Director Quality Circle Forum of India Hyderabad, Prof. Ashok K Mittal.
83. Fellow, Indian National Academy of Engineering, K. Shanker.
84. Dr. B. Basu has been appointed as Foreign Member on Editorial board, Journal of Korean Ceramic Society, South Korea.
85. Dr. B. Basu has been appointed as a Member of International Advisory Panel, College of Biomedical Engineering and Applied Sciences, Kathmandu, Nepal.
86. Dr. B. Basu has been appointed as a Member of Editorial board, Trends in Biomaterials and Artificial Organ, only Indian Journal in the area of Biomaterials, Society of Biomaterials and Artificial Organs, India.
87. Dr. Ashish Garg, Ramanna Fellowship, Department of Science and Technology, Government of India (2006)
88. Fellow, Indian Academy of Engineering, 2006, K. Muralidhar.
89. Fellow of the American Society of Mechanical Engineers (ASME) Dr.G.Biswas
90. Best Paper Award in a conference the details of which are given below:, A.K.Saha
91. (A.K.Saha, G.I. Mahmood, Sumanta Acharya, The Role of Leading-Edge Contouring on End-Wall Flow and Heat Transfer: Computations and Experiments, Proceedings of the ASME IGTI 2006, Barcelona, Spain, May 8-11, 2006).
92. Young Scientist Award, 2006, Systems Society of India, Bishakh Bhattacharya.
93. Ramanna Fellowship, Department of Science and Technology, Government of India, 2006, A. Chandra.
94. Lalit Kapoor Chair Professor, V. Chandrasekhar.
95. Member of Advisory Board and Session Chair for the "Lecture delivered by Lov Grover" at the Indo-US Shared Vision Workshop on Soft, Quantum and Nano Computing, Dayalbagh Educational Institute, Agra, February 22 (2007), D. Goswami.
96. J.C. Bose Fellow, Department of Science and Technology, New Delhi 2006, N. Sathyamurthy

97. Ramanna Fellowship by the Department of Science and Technology, New Delhi, Y D Vankar
98. Edited a special issue on 'Carbohydrate Chemistry', edited by Y. D. Vankar;
99. Proc. Indian National Science Academy, 2005, Y D Vankar

(F) CONTINUING EDUCATION ACTIVITIES

1. Acted as the resource person at SSGM College of Engineering, Shegaon, Maharashtra for AICTE sponsored First Course on CFD, 30 - 31 March, 2007. (30 participants from other engineering college and industry), Tapan K. Sengupta.
2. Structure-Rheology and Processing of Polymer Nanocomposites, QIP course on, "Recent Trends in Nanocomposites," Indian Institute of Technology-Kanpur, November 2006, Y. M. Joshi.
3. Organized a SERC-DST school on Rheology of complex fluids at IIT-Kanpur in December 2006, Y. M. Joshi.
4. Organized a 3rd National Symposium on Rheology of complex fluids at IIT-Kanpur in December 2006, Y. M. Joshi.
5. Future of the past: Use of modern technologies in archaeology, IIIT Jabalpur sponsored, IIT Kanpur, 12 June to 7 July 2006 (Major resource person), Lohani, B.
6. Seismic Design of Bridges" (Self Sponsored) at IIT Kanpur during 15-19 January, 2007 (52 participants) , C V R Murty with Professors Durgesh C Rai and Sudhir K. Jain.
7. Organised and/or conducted with Professors Durgesh C Rai and Sudhir K. Jain, continuing education programs for teachers of engineering colleges and polytechnics on "Seismic Design of Buried Pipelines" at IIT Kanpur in April 2006, (24 participants), on "Nonlinear Seismic Analysis of Structures" at IIT Kanpur in October 2006.
8. Organised and/or conducted with Professor Persi Engineer (Sarvajanik College of Engineering and Technology, Surat) and Ar. Amit Bose (Designers and Planners Combine, New Delhi), continuing education program for teachers of colleges of architecture, and professional architects and planners, on "Architecture for Earthquake Resistance of Buildings" at SCET, Surat in November-December 2006.
9. Five lectures delivered at the Winter School on Modeling of Planetary Atmospheres organised by Physical Research Laboratory, Ahmedabad, Tripathi, S.N.
10. Participation in High Level Industry Academia Interaction Programme during Summer: No, Tripathi, S.N.
11. Organized the Third International Workshop on Biometrics held on December 2006 at IIT Kanpur, Phalguni Gupta.

12. Organized a Workshop on High Performance Computing held in July 2006 at IIT Kanpur, Phalguni Gupta.
13. Convened the National Workshop on Power Electronics, NWPE 2006, at IIT Kanpur, from October 30-November 1, 2006. 90 participants, P. Sensarma.
14. Lecture module (8 hours) delivered at BHEL, Bhopal on "Power Electronic Converters", November 9-10, 2006. 20 participants, P. Sensarma.
15. Co-organized a short term course under QIP scheme of AICTE on 'Electric Power System Operation and Control: Modern Trends and Future Challenges' during 28th August - 1st September 2006, at IIT Kanpur, Coordinators: S.N. Singh and S.C. Srivastava.
16. Mar 14-15, 2006. Organized "Workshop on Recent Advances in Controls & Sensors" at IITK. Speakers included faculty of IIT Kanpur and scientists from ISRO. Audience included faculty & students from NITs, IITs, and engineering colleges, and engineers and researchers from industry, R. Potluri.
17. Coordinator of Quality Improvement Program Course on Electric Power System Operation and Control: Modern Trends and Future Challenges at IIT Kanpur, August 28- September 1, 2006, S.N.Singh.
18. Organizing Member of Winter School on Speech & Audio Processing (WISSAP'06 - 07), Bangalore. Self Sponsored (70 from Academia, 30 from Industry), S. Umesh.
19. Organization, Coordination, and main Instruction of Avionics Course For HAL candidates, K. S. Venkatesh.
20. Short course on "Introduction to VLSI Design" at HBTI, Kanpur from 19th to 21st Jan., 2006. Gave one hour inaugural talk on "VLSI Processing" on 19th Jan., 2006. Attendance was from academia (~40 participants), S. S. K. Iyer
21. Short course on "Energy Management" at MNNIT, Allahabad from 27th to 31st March, 2006. Gave three one-hour lectures on "Organic Solar Cells" on 28th March, 2006. Attendance was from academia and industry (~80 attendees), S. S. K. Iyer
22. Short course under Instruction Enhanced Programme under the Special Manpower Development Programme II of MCIT, on "Digital IC Design" from 3rd to 14th July, 2006 at IIT Kanpur. Attendance (~25) was from academia from participating institutes of MCIT. S. Qureshi, S. S. K. Iyer, B. Mazhari, A. Dutta, A. Joshi
23. QIP short course on "Organic Electronics" from 17th to 21st July, 2006 at IIT Kanpur. Helped in organization as well as presented four one-hour lectures. Attendance (27 nos.) was from academic institutions, S. S. K. Iyer, B. Mazhari
24. Tutorial on "Organic Electronics - Technology, Devices, Circuits and Applications" at the 20th International Conference on VLSI Design at Bangalore on 6th January, 2007. Helped organize the six hour tutorial and also conducted it for three hours. Number of participants was 25 from both academia and industry.

25. QIP Short Course on Advances in Materials and Fuel Technologies for Automotive Applications, 8-12th June 2006, IIT Kanpur
26. Offered a certificate course on Supply Chain Management through SIIC, IIT Kanpur. Mehta, P.
27. Accounting for Managers, Ordinance Factory Kanpur, B.V.Phani.
28. Quantitative Analysis of in VIVO Magnetic Resonance Imaging Data for Diagnostics of Vascular Diseases supported by CFD Simulation, Indo-Swiss project supported by Department of Science and Technology, New Delhi, (2006-2008), K.Muralidhar.
29. Recent Trends in Nano Composites, November 6th-10th 2006 at IIT Kanpur. J. Ramkumar.
30. Short term course, Mathematical Methods in Science and Engineering, QIP-sponsored, 3-15 July 2006, B. Dasgupta.
31. Short term course, Mathematical Methods in Science and Engineering, Self-sponsored, 27 February - 17 March 2007, B. Dasgupta.
32. Coordinator for the 2nd National Workshop on Smart Materials for the Design of Intelligent Systems and Industrial Application, 23-25 March 2007, Bishakh Bhattacharya.
33. Recent trends in Nano Composites, QIP, Kanpur, November 06-10, 2007, Number attended from academic: 35, Industry/others:10, Kamal K. Kar and J. Ramkumar.
34. Fundamentals of IC Engines, One week sponsored course offered to RDSO engineers (15 participants), March 2007, A.K.Agarwal.

(G) PARTICIPATION IN HIGH LEVEL INDUSTRY ACADEMIA INDUSTRY INTERACTION PROGRAMME DURING SUMMER

1. Summer consultant to Chevron Refining, Richmond, CA, USA, D. Kunzru.
2. Conceptualized and organized the first meeting of Expert group on Coordinated programme on Research and Development in Airborne Altimetric LiDAR Technology at IIT Kanpur on 14 June 2006, Lohani, B.

(H) ANY OTHER IMPORTANT ACTIVITY NOT SPECIFIED IN ABOVE COLUMNS

1. Sustained activity in spreading literacy and Primary Education through an NGO called Shiksha Sopan, K. Ghosh.
2. Member, Organising Committee for 1-st US-Asian Demonstration and Assessment of Micro-Aerial and Unmanned Ground Vehicle Technology, C. Venkatesan.
3. Assumed Charge as Coordinator, Structures Panel of Aeronautics R&D Board, DRDO, C. Venkatesan.
4. Consultant to Delhi-Metro Railways Corporation for the proposed link between New Delhi Rail station to Airport, Tapan K. Sengupta.
5. Visited BIT-Sindri as Member - National Board of Accreditation (NBA) set-up by AICTE, P.K. Bhattacharya.
6. Attended meeting in Krishi Bhawan as Member, Advisory Board, National Sugar Institute, Kanpur (From September 2006) , P.K. Bhattacharya.
7. Reviewed for Journals, Canadian Journal of Chemical Engineering, Chemical Engineering Journal, Industrial Engineering Chemistry & Research, Journal of Hazardous Materials, Journal of Membrane Science, Water Research, P.K. Bhattacharya.
8. Member- Selection Committees, IIT-Delhi (New Delhi), IIT-Kharagpur, P.K. Bhattacharya.
9. Project Evaluated, DST, P.K. Bhattacharya.
10. Thesis Examiner, IIT-Kharagpur, University of Kerala, Aligarh University, P.K. Bhattacharya.
11. Review of manuscripts of Catalysis Today, Applied Catalysts General A, International Journal of Chemical Reaction Engineering and Catalysis Communication, G. Deo.
12. Appointed Director General, Gujarat Energy Research and Management Institute, Gandhinagar to set up a new University in Petroleum Technology and Management , J. P. Gupta.
13. Member- Selection Committees, IIT-Gowahati (Nov. 2006), IIT-Roorkee (Feb. 2007), Ashok Khanna.
14. Reviewed research paper manuscripts for (a) Chemical Engineering Science (b) Journal of Chemical Thermodynamics & (c) Industrial Engineering Chemistry Research, Ashok Khanna.
15. Structural design of Modern Hangar with Annexe at Bareilly (U.P.), Chakrabarti, S.K.
16. Proof-checking of the design of POT/PTFE bearings for H.L. Bridge at Katonjha over river Bagmati in Muzaffarpur (Bihar), Chakrabarti, S.K.
17. Rectification of the defective construction of the Swimming Pool under construction at Saifai (Etawah) (U.P.) (Sponsored by : U.P. Rajkiya Nirman Nigam Ltd.; Sanctioned Amount : Rs. 1.4 lakh) , Chakrabarti, S.K.

18. Developed (along with Dr. A. Das, CE, IITK) Web-based NPTEL course on Transportation Engineering, Chakraborty, P.
19. Principal Investigator of the Wastewater Treatment and Management (WWTM) project of Asian Regional Research Programme in Environmental Technology II (ARRPET II). The project consists of five National Research Institutes (NRIs) from Thailand, Vietnam and India. More information is available at <http://www.arpet.ait.ac.th/wwtm/team.html>, S. Guha.
20. Center for Advanced Studies Visiting Fellow, Institute of Technology, Banaras Hindu University, Tripathi, S.N.
21. Member of Cloud Steering Committee, Department of Science and Technology CTCZ Experiment, Tripathi, S.N.
22. Member, Core Committee, Mars Orbiter, Appointed by Director, Physical Research Laboratory, Department of Space, Ahmedabad, Tripathi, S.N.
23. Member of Task Team and Steering Review Committee of the Space Borne Lidar Project, Vikram Sarabhai Space Centre, Thiruvananthapuram, Tripathi, S.N.
24. Participated in the 2nd National Frontiers of Science (NatFOS) Symposium held during 3-4 December, 2006 at INSA, New Delhi, Tripathi, S.N.
25. NPTEL Video Course on Power System Operation and Control, S.N. Singh.
26. Organized the 13th National Conference on Communications at IIT Kanpur during 26th to 28th January, 2007, A.K. Chaturvedi.
27. Electronic Fabrication (ELFAB) module at 4-i Laboratory, S. Sensarma.
28. The High Voltage laboratory was enhanced with modern detection equipment: Partial discharge detector, high resolution high speed Basler camera, Pico-ammeter, photon counter, etc. N. Gupta.
29. Developed a DSP Laboratory based on Texas Instruments TMS320C6711/C6713 processors, A. Banerjee.
30. Expansion and Upgradation of VLSI / EDA Laboratory for Teaching, Research and Conducting of Courses for Participants from Colleges and Industry, WL-211, S. Qureshi
31. Setting up of Organic Characterization Lab' in WL-125, B. Mazhari & S. S. K. Iyer.
32. Participated in Class 1000 Room Functioning, SAMTEL Centre for Display Technology, S.S.K. Iyer.
33. Member, Organizing Committee, National Workshop on Intellectual Property Rights, 31st March to 1st April 2007, IIT Kanpur, B.V. Phani.
34. Created a Web-based Course on Fluid Mechanics for the sophomore students (open to all, under the auspices of NPTEL, an consortium of the Ministry of Human Resource and Development) [URL

- :[\[http://www.nptel.iitm.ac.in/courses/Webcourse-contents/IIT-KANPUR/30Oct/FLUID-MECHANICS/ui/Course_home-1.htm\]](http://www.nptel.iitm.ac.in/courses/Webcourse-contents/IIT-KANPUR/30Oct/FLUID-MECHANICS/ui/Course_home-1.htm)], G.Biswas.
35. Expert Member, Technical Committee for Evaluation of Vehicle Emission Factors Development, Central Pollution Control Board, New Delhi, B.P.Pundir
 36. Expert Member, Standing Committee on Emission Standards for Off- Highway RIC Engines, Central Control Pollution Control Board, New Delhi, B.P.Pundir
 37. Consultant on EU 'Quantify' Project being conducted by European Union-Central Institute of Road Transport, Pune on Emission Inventory from Transport Vehicles in India, B.P. Pundir
 38. Guest Editor in Vasundhara Devi, G. Jayaraman, S. Leela, and A. Sengupta (Editors). Nonlinear Analysis - A Comprehensive Survey of Theory and Applications in honour of Professor V Lakshmikantham's 85th birth anniversary in 2008. To be published by Elsevier, A.Sengupta.
 39. Plenary 1-hr Lecture in World Congress of Nonlinear Analysts (WCNA)-2008, July 2008, A.Sengupta.
 40. Involved with Organizational activities of Indo-Japan seminar on Advanced Manufacturing, N.V.Reddy.
 41. Sponsored projects on Tele-ophthalmology, Ministry of Health and Family Welfare, Rs.10 lakhs, duration one year, Harish Karnick.
 42. Project on Open Philosophies of Associative Autopoietic digital ecosystemS (OPAALS) sponsored by European Commission, Prabhakar T.V.
 43. Project on Voice Processing sponsored by General Motors, Prabhakar T.V.
 44. Rajat Moona established a "Storage Lab" with collaboration and funding from TCS Lucknow. The lab facilities include a HP NAS Server with 500GB storage and a EMC SAN Server with 1.5TB storage. In addition to this the lab uses various new technologies related to the storage such as iSCSI initiator and iSCSI target. Several research works are also being carried out in the lab including research on the state-of-art in storage such as object oriented storage servers, security and availability of data etc.
 45. The department has become the nodal centre in supporting the courses related to multi-core programming and architecture in the country. The project is funded by Intel Corporation. We have developed course ware on "Program Optimization for Multi-core Architecture". The course ware is being distributed to other engineering colleges. We are participating in workshops being organized by Intel to propagate this technology, and for conducting teacher's training programmes. Intel has established a laboratory having multi-core desktops and servers to support this activity. The laboratory also has all the Intel multi-core related software.
 46. Reviewed Ph.D. theses each for Banaras Hindu University and Indian Institute of Science, R. Gurunath.

47. Reviewed manuscripts for journals Peptide Research and Current Science, R. Gurunath.
48. Executive member and co-editor of the Indian peptide society newsletter, R. Gurunath.
49. A special Issue on 'Coordination Polymers', Edited by J. N. Moorthy and J. J. Vittal; J. Mol. Struct. (An Elsevier Journal) 2006, Vol. No. 796.
50. Organizer, International Conference on Quantum Computing: Back Action 2006 held during March 06-12, 2006. Funded through Indo-US, Max-Planck (Garshing) and MIT (USA), D Goswami.
51. Organized (with Prof. T. Chakraborty, IACS, Kolkata) the fourth International discussion meeting on Spectroscopy and Dynamics of Molecules and Clusters, held from February 23-25, 2007 at the Corbett National Park, India, K. Srihari.