1. Books and Book-Chapters published:

1. An Expedition to Geometry, Hindustan Book Agency, New Delhi, 2005, Santhanam, G., Kumaresan, S.,

2. Research Papers Published in Journals and Conference Proceedings:

5. Change of variable formula for multiple integrals, Mathematics Newsletter (NBHM), Vol.15, No.1, 2005, 6-9, Santhanam, G., Kumaresan, S.
7. Estimation of regressions coefficients subject to exact linear restrictions when some observations are missing and balanced loss function is used, TEST, Vol.14, No.2, 2005, 385-396, Shalabh, Toutenburg, H.


13. A subset selection procedure for selecting the exponential population having the longest mean lifetime when the guarantee times are the same, Comm.Statist. Theory Method 34, No.7, 2005, 1555-1569, Misra, N., Somesh, K., Meulen van der E.C., Tripathi, Y.M.


27. Estimating the number of components of the fundamental frequency model J. Japan Statist. Soc.35, No.1, 2005, 41-59, Kundu, D., Nandi, S.


48. A study of nonlocal history-valued retarded differential equations using analytic semigroups, Nonlinear Dynamics and System Theory, 6(1), 2006, 63-75, Muslim, M., Bahuguna, D.


50. Optimality conditions for maximizing a locally Lipschitz function, Optimization, Vol. 54, 2005, 377-389, Dutta, J.


58. Dynamics of family of non-critically finite even transcendental meromorphic functions, Regular and Chaotic Dynamics, Vol.9(2), 2004, 143-162, Kapoor, G.P., Sajid, M.


3. Research Papers Published in Conference Proceedings


4. SEMINARS PRESENTED
1. Department of Mathematics, University of Limoges, France, May 27 2005, Dutta J.
2. Lagrange multipliers: Revisited at the Center for optimization and stochastics, Martin-Luther University, Halle, Germany., seminar title ‘Dutta, J.
3. Invited lectures at National seminar on partial differential equations and scientific computing held at Department of Mathematics, Sixth Gujarat University, Surat from 23-25, Jan. 2006, Raghavendra, V.(also chaired 2 seminars).

6. An overview of FDM for PDEs in National Symposium on Scientific Computing with Applications to PDEs’ at IIT Kanpur, Nov. 19-21’05 Kadalbajoo, M.K.
7. The Derived space of $L^p(G)$ on Feb. 25, 2006 at Department of Mathematics, University of Jammu. Tewari, U.B.
8. Frechet algebras of power series in the Department of Mathematics, University of Copenhagen, Denmark on 26th May 2005, Patel, S.R.
10. Rough consequence relations at IMSc, Chennai, July, 2005, Banerjee, M.


5. CONFERENCES ATTENDED OUTSIDE IIT KANPUR

1. 9th Discussion meeting on harmonic analysis, HRI, Allahabad in Oct.'05 - invited talk on Integer translates $L^p$ functions and chaired one session - S. Madan.

2. 9th Discussion meeting on Harmonic Analysis HRI, Allahabad from Oct. 05 - invited talk, titled Order Convolution and Vector-valued multipliers, also chaired a session. . U.B. Tewari

3. 9th Discussion meeting on harmonic analysis, HRI, Allahabad in Oct.’05 Contributory Paper by R. Rawat.


6. 55th session of International Statistical Institute Sydney, Australia, April 2005, contributory paper ‘On the regression method of estimation of population mean from incomplete data through imputation’ by Shalabh


8. 20th summer conference on topology and its applications; July 10-14, 2005 Talk Order Convolution and vector-valued multipliers by U.B. Tewari.


10. International Conference on Operations Research Applications in Infrastructure Development held at IISc, Bangalore from 27th to 29th Dec.’05, - paper presentation An efficient local search scheme for minimising weighted mean absolute deviation, by P. Sharma, A. Gupta.

11. International symposium on Algorithmic Operations Research at Simon Fraser University, Burnaby, Canada on the 27th Jan’06. Sharma, P. (participated)

13. 8th International conference on generalized convexity and generalized monotonicity at University of Insubria, Varese, Italy, 3rd-8th of July 2005. Invited paper (jointly with Stephan Dempe), Dutta, J.

14. Recent advances in Operations Research and Graph Theory Calicut on December 16th and 17th, 2005 distinguished speaker Sridharan, M. R.


21. Conference in Reliability Analysis Indian Statistical Institute, New Delhi, Dec. 20-22, 2005, paper Analysis of partially complete time and type of failure data, Kundu, D.


25. 17th Banach Algebra Conference at University of Bordeaux1, Bordeaux1, France, 2005 invited talk On Frechet algebras of power series; also chaired a session, Patel, S.R.


27. 1st Indian Winter School on Logic and its Relationship with Other Disciplines, IIT Bombay, January, 2006 – Tutorial on Reasoning under uncertainty, Banerjee, M.

28. 1st International Conference on pattern recognition and machine intelligence (PreMI ’05), ISI Kolkata, December, 2005, paper presented by Banerjee, M.,
29. Conf. on Topics on functional and numerical analysis, IIT, Bombay, from 7th to 9th Dec. 2005. Patel, S.R.

30. 9th Discussion meeting on harmonic analysis, HRI, Allahabad in Oct.’05, participated, S.R. Patel.


34. 18th National and 7th ISHMJ-ASME HMTC, Jan. 4-6,2006 IIT Kharagpur, Paper # 4004, Numerical simulation of complex ADSS with FEM, Rathish Kumar, BV. Prakash, A.A., Biswas, G.

6. OTHER ACTIVITIES

(c) Visit to other institutes for research


4. S. R. Patel Visited the Department of Mathematics, University of Bordeaux1, Bordeaux1, France from 1st June to 18th July 2005 for collaborative work with Prof. J. Esterle and M. Akkar.

5. S. R. Patel visited the Department of Mathematics, University of Copenhagen, Copenhagen, Denmark from 24th May to 31st May 2005 to discuss the research with Profs. K. B. Laursen and N. Gronbaek.


(d) Awards and Honours

1. Shalabh received Humboldt Fellowship to work at Institute of Statistics, Ludwig, Maximilians Univ. Munich, Germany.

2. Shalabh – Member of organizing Committee of International workshop on TLS and Errors – variables Modelling, Belgium, 2006.

4. Banerjee, M., Member, Interim Advisory Board, International Rough Set Society.


(f) Continuing Education Activities


7. Santhanam, G., was resident faculty in MTTS programme 2005 held at S.P. College, Pune during May 14, 2005 – June 9, 2005 to teach a course of lectures on topology.


10. S. K. Ray resident faculty for MTTS 2005 (level 0) held at Jadavpur University, 23.5.2005 to 18.6.2005 and gave a course on Real Analysis.