Indian Academy of Mathematical Modelling and Simulation (IAMMS)

Announcement on

International Conference on Mathematical Modelling, Differential Equations, Scientific Computing & Applications (ICMMDESCA-2016)
at
Indian Institute of Technology Kanpur (Mar 27-29, 2016)

Introduction: Mathematical modelling plays a very important role in the entire process of understanding a system as it helps in analyzing various variables and parameters of the system/subsystem under consideration. Differential Equations and Scientific Computing are integral part of Mathematical modelling. Deferential Equations (DEs) provide a qualitative and quantitative description for many central models in physical, biological, and social sciences. Over the past several years, scientific computation has emerged as the most versatile tool to complement theory and experiments. Modern numerical methods, in particular those for solving nonlinear DEs, are at the heart of many of these advanced scientific computations.

The progress and developments in Mathematical Modelling, Differential Equations and Scientific Computing are deeply intertwined and their advancements are fully complimentary. Hence a platform to discuss these topics together will be academically enriching. This conference will provide a right setting, wherein exciting and interactive exchanges among pure, applied and computational mathematicians will take place to bring about more collaborations and cross-stimulations in this extremely flourishing field.

Target Audience: Post-Graduate students, teachers and researchers from different institutes, universities and research organizations across the country

Topics:

- Boundary value problems
- Biological systems
- Computational mathematics and mechanics
- Computational fluid mechanics
- Differential Equations
- Difference equations
- Dynamical systems
- Environmental Systems
- Ecological Systems
- Economic systems
- Epidemiological and Health Systems
- Fractals
- Industrial Systems
- Mathematical biology
- Nonlinear evolution equations
- Numerical methods for differential equations
- Stability theory
- Social Systems

Special sessions: Few symposia on specific topics will be organized. Talks in these special sessions are invited by special session organizers.

Tentative List of Invited Speakers:

- Prof. Carsten Cartensen (Germany)
- Prof. Y. Takeuchi (Japan)
- Prof. Relja Volanovic (USA)
- Prof. Siraj-ul slam(Pakistan)
- Prof. Kailash Patidar(UWC, Cape Town)
- Prof. Morrakot Khebchareon(Thailand)
- Dr. Ahmed Noussair (France)
- Prof. Steve Baer (USA)
- Prof. M. A. Navasuces (Spain)
- Prof. Veerappa Gowda(TIFR-CAM)
- Prof. Pravir Dutt (IITK)
- Prof. Vasudeva Murthy (TIFR-CAM)
- Prof. Nandakumaran(IISc)
- Prof. S.Sundar (IIT Madras)
- Prof. Sanyasiraju (IIT Madras)
- Prof. Amiya Pani (IIT Bombay)
- Prof. Neela Natarajan (IIT Bombay)
- Prof. Rajen Sinha(IIT Guwahati)
- Prof. Natesan (IIT Guwahati)
- Prof. S.C.Rao (IIT Delhi)
- Prof. Kapil (SAU,N.Delhi)
- Prof. Arindhama Singh (IIT Madras)
- Prof. A.K.B.Chand (IIT Madras)
- Prof. Satyajit Roy(IIT Madras)
- Prof. V.V.K.Srinivas (IIT Delhi)
- Prof. Guruprem Prasad (IIT Guwahati)
- Prof. Kadalbajoo (IITK)
- Prof. G.P.Kapoor (IITK)
- Prof. Sashikumar Ganeshan (IISc)
- Prof. Tirupati Gudi (IISc)

- Prof. A.K.Mishra(BHU)
- Prof. Sreenadh (IITD)
- Prof.Balram Dubey(BITS Pilani)

- Prof. Ramnaresh (HBTI, Kanpur)
- Prof. Joydheepdhar (Jiwaji University)
- Prof. Manju Agrawal (Lucknow Univ)

International Advisory Committee:
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- Prof. Karmeshu ,India
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- Prof. Y. Takeuchi , Japan
- Prof. P S Vaidya ,India

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- Prof. D .Kundu (IIT Kanpur)
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- Prof. S.Gakkhar (IIT R, Roorkee)
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- Prof. Manju Agarwal (LU, Lucknow)
- Dr. G.Prathap, (C-MMACS, Bangalore)
- Prof. V.Raghavendra (SSSUniv)

Coordinators: Prof. B.V.R.Kumar (IITK)**,**Prof. P. Sinha and Prof. J.B.Sukhla (IITK)

Organizing Committee: Profs. Pravir Dutt, D.Bahuguna, S.Ghorai, Malay Banerjee, T.Muthukumar, Kaushik Bal, A. Anand (IITK), A.K.B.Chand(IITM), Kapil Sharma (SAU, Delhi), Guruprem Prasad(IIT Guwahati), A.K.Misra(BHU)

Participation: To participate in the workshop, fill in the required registration form which can be downloaded from the website: http://www.iitk.ac.in/workshop-and-conference/ICMMDESCAA and email to: ICMMDESCAA16@gmail.com.

Registration Fee: (a) Rs. 2000/- for students, (b) Rs. 3500/- for faculty & Scientists and (c) Rs. 5000/- for participants from Industry.

Call for Papers: Contributed papers are welcome. Please submit 3-page extended summary of the work in MS DOCX format before **March 1, 2016** and email it to ICMMDESCAA16@gmail.com together with the registration form. The extended summary in MS DOCX format should consist of a) Title, b) Name with Affiliation and email, c) Extended Abstract of about 250 words, d) Five Key words, e) High lights on Model & Methodology of about 750 words, f) Key Results, g) Important data/figure(s) and h) Few important References. *The document should be typed in TIMES NEW ROMAN font of size 11. Title should be typed in the same font of size 14. Please keep the left, right, top and bottom margins of one inch size.*

Important Dates: Last Date of submission of Abstracts: March 1, 2016.
                Announcement on Acceptance of contributed Papers: March 10, 2016
                Last Date for Registration: March 10, 2016

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