International Conference on

Recent Advances in PDEs : Theory Computations and Applications

Department of Mathematics, Indian Institute of Technology Bombay

8th - 10th June 2017

The study of Partial Differential Equations (PDE) has been cornerstones of applied mathematics since a long time. In fact, it is well known that the study of computational methods for PDEs and their applications is extremely crucial for the development of science and technology. In the current scenario, this involves design of efficient methods and reliable algorithms which together with powerful high performance computers enable the success of the new approach to science and engineering through computational modeling and simulation. Hence, it is important to have a deep understanding of the classical and new methodologies used in numerical methods.

The conference aims at bringing together national and international experts in the area which paves way for discussion on theoretical as well as computational aspects of PDEs with emphasis on challenging scientific and industrial applications. With an increase in the number of IITs, IISERs, NITs and other national institutes in India, there is a severe need of networking of Mathematicians working in the broad areas of Applied Mathematics, Differential Equations, Numerical Analysis and Scientific Computing.

This conference will help bring together scientists and research scholars and help them to interact with international experts. It would also help networking of applied mathematicians and people from industries.

The conference is held in honour of Prof. Amiya K. Pani, Department of Mathematics, IIT Bombay on the occasion of his 60th birthday to acknowledge his outstanding contributions in the field of Numerical Analysis. In addition to his excellent contributions to the research in the area of his interest, Prof. Pani has been tirelessly working over the last decades to promote research in the areas of Applied Mathematics and Scientific Computing in India through his outreach programmes. He has played a very significant role in bringing together many Mathematicians in the country who work in the area of Applied Mathematics to organise joint workshops for the undergraduate, post-graduate and research students and these lectures have motivated young students to take up Applied Mathematics as a career option.

The topics of interest of this conference cover (but not limited to) the theory, computation, and applications of PDEs. More precisely,

1. Challenges in PDE theory including control and optimal control;
2. Numerical analysis and computational aspects including efficient and robust algorithms and high performance computing.
3. Modelling and Industrial Applications.

Important Deadlines

Conference Registration Details		Indian Nationals		Foreign Nationals		Participants
Type	Important Dates	Student*	Faculty**	Student**	Faculty**	from Industries
Regular Registration	December 15, 2016 - February 15, 2017 Extended till March 31, 2017	INR 4000	INR 6000	US $200	US $200	INR 10,000
Late Registration	April 1, 2017 - April 15, 2017	INR 5000	INR 7000	US $250	US $250	INR 12,000

* Registration fees includes accommodation in Students Hostel (only for students).

** Other participants will be accommodated in nearby Hostels and Hotels on a payment basis; the details of which will be provided soon.

Contributed Papers/Poster Presentation Proposals		Important Dates
Submission Opens	.....	December 15, 2016
Submission Closes	.....	April 15, 2017
Notification of Decision	.....	April 20, 2017

Cancellation Policy:

Full Refund of Registration Fees	Before May 05, 2017
50% of Registration Fees	Before May 18, 2017

Conf. Website: http://www.npde-tca.math.iitb.ac.in/pdetca/

Enquiry & Contact : Prof. S. Baskar
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Invited Speakers

- Prof. K. R. Arun (IISER, Trivendrum)
- Prof. Susanne C. Brenner (Louisiana State University)
- Prof. Cartsen Carstensen (Humboldt University, Berlin)
- Prof. Sheetal Dharmatti (IISER, Trivendrum)
- Prof. Jerome Droniou (Monash University, Australia)
- Prof. G.D. Veerappa Gowda (TIFR CAM, Bangalore)
- Prof. Thirupathi Gudi (IISc, Bangalore)
- Prof. Mohan K. Kadalbajoo (IIT Kanpur)
- Prof. S. Kesavan (IIT Madras)
- Prof. Bishnu Lamichane (University of Newcastle, Australia)
- Prof. R. K. Mohanty (South Asian University)
- Prof. Olivier Pironneau (Pierre-and-Marie-Curie University, Paris)
- Prof. Phoolan Prasad (IISc, Bangalore)
- Prof. Mythily Ramaswamy (TIFR CAM, Bangalore)
- Prof. Jean-Pierre Raymond (Institut de Mathématiques de Toulouse)
- Prof. Kapil Sharma (South Asian University)
- Prof. Rajen Sinha (IIT Guwahati)
- Prof. Li-yeng Sung (Louisiana State University)
- Prof. Vidar Thomée (Chalmers University of Technology)
- Prof. A. Vasudeva Murthy (TIFR CAM, Bangalore)
- Prof. Andreas Veeser (University of Milan, Milano)
- Prof. John Whiteman (Brunel University London)

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Venue: Indian Institute of Technology Bombay, Powai, Mumbai - 400076