



TCPDE 2016

International Conference

on

RECENT ADVANCES IN THEORETICAL & COMPUTATIONAL PARTIAL DIFFERENTIAL EQUATIONS WITH APPLICATIONS

University Institute of Engineering and Technology, Panjab University, Chandigarh

DECEMBER 05-09, 2016



The objective of the conference is to bring together active researchers and experts from various disciplines: numerical, applied and computational analysis of partial differential equations (PDE), to showcase their state-of-the-art research results and to forge new cross-disciplinary connections among the participants and existing national and international nodes. This conference provides a unique opportunity for in-depth technical discussions and exchange of ideas on range of topics related to PDE's and explores the potential of their applications in finance, industry, social sciences, engineering and technology. Moreover, it is intended to expose young researchers to emerging trends and areas of research that has significant mathematical, scientific and computational importance. The thrust area includes; but is not limited to,

- analysis of PDE; conservation laws, nonlinear and inverse problems, control theory & optimization,
- adaptive algorithms; feed-back and a posteriori error control,
- hierarchical modeling; multi-scale mathematical models with theory and algorithms,
- recent advances in finite element, finite difference and finite volume methods,
- computational fluid dynamics; multi-grid methods, domain decomposition methods,
- and their novel application areas in finance, material science, deformation of bodies, fluid flow and electromagnetic phenomena, oil reservoir studies, image and signal processing and other allied branches of engineering and natural sciences.

Panjab University

Panjab University (PU) is one of the oldest institution of higher education in the India. It was first established in 1882 as University of Punjab at Lahore. The university was later shifted to India, after the partition in 1947, and was constrained to function for almost a decade without a campus of its own. The administrative offices were located at Solan and the teaching departments functioned from Hoshiarpur, Jalandhar, Delhi and Amritsar. PU got his present campus at Chandigarh in 1956, Pierre Jeannerette designed the red sandstone university campus under the general guidance of legendary French architect Le Corbusier.

Since its incorporation in 1882 and subsequent relocation to Chandigarh in 1956, PU is devoted to excellence in teaching, learning, and research. The University has upheld its abiding commitment to advance knowledge and educate students in science, technology, humanities, social sciences, engineering and related areas of scholarship. The University has seventy eight teaching and research departments, one hundred eighty eight affiliated/constituent colleges spread across the state of Panjab and Chandigarh, in addition to the regional centers at Muktsar, Ludhiana, Hoshiarpur and Kauni, offering a truly global education.

PU has created a culture of inclusion that supports and learns from the diverse skills and perspectives that exist in its community. The Institute supports student growth by providing opportunities to bond, expand and grow, as well as to step outside a given worldview in order to appreciate diverse life experiences. PU faculty are engaged with teaching and research to push the boundaries of human knowledge. We seek to develop in each member of the PU community the ability and passion to work wisely, creatively and effectively for the humankind. Engagement in those perspectives leads to a greater understanding of the world and our place in it.

University Institute of Engineering and Technology

University Institute of Engineering and Technology (UIET) was established in 2002 and is constituent institute of Panjab University, Chandigarh. The institute has maintained high quality in technical education. The well-qualified faculty is the backbone of the institute. Well-equipped laboratories provide the exposure to the students towards practical aspects of engineering. UIET offers undergraduate, postgraduate as well doctoral courses in engineering and basic sciences. It has prospered by leaps & bounds over the years achieving great academic heights besides foraying into the finest engineering colleges of the country.

Important Deadlines

Registration Details			Indian Nationals		Foreign Nationals	
			Faculty	Students	Faculty	Students
Regular Registration	May 01, 2016	- Sept. 30, 2016	INR 3000	INR 1000	\$ 200	\$ 100
Late Registration	Oct. 01, 2016	- Oct. 31, 2016	INR 4000	INR 1500	\$ 250	\$ 150

Contributed Papers / Minisymposium Proposal	Important Dates
Submission Opens	May 01, 2016
Submission Closes	October 31, 2016
Notification of Decision	November 01, 2016
For detail guidelines how to prepare and submit contributed papers & minisymposium proposal visit www.tcpde.com under tab TCPDE 2016.	

Organizing Committee

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- Kapil Sharma, South Asian University, India
- K. Sreenadh, Indian Institute of Technology Delhi, India
- S. Sunder, Indian Institute of Technology, Madras
- Zoran Radaković, University of Belgrade, Serbia
- Mohan D. Sharma, Kurukshetra University, Kurukshetra, India
- Satyabir Singh, Punjabi University, Patiala, India

Speakers

- Daniele Boffi, Università di Pavia, Italy
- Dharendra Bahuguna, Indian Institute of Technology Kanpur, India
- Susanne C. Brenner, Louisiana State University, USA
- Carsten Carstensen, Humboldt-Universität zu Berlin, Germany
- Michel Chipot, Universität Zürich, Switzerland
- Charlie Elliott, University of Warwick, England
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- Samir Karaa, Sultan Quaboos University, Oman
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- Ian H. Sloan, University of New South Wales, Australia
- Rolf Stenberg, Aalto University, Finland
- S. Sunder, Indian Institute of Technology Madras, India
- Vidar Thomee, Chalmers University of Technology, Sweden
- Anil K. Vashisht, Kurukshetra University, Kurukshetra, India
- Kishor Chintamanrao Deshmukh, Nagpur University, India

The contributed papers will form part of the proceeding following the due review process of the respective journals:

Computational Methods in Applied Mathematics

An International Journal of Computational Methods for Partial Differential Equations
ISSN: 1609-9389

Abstracted/ Indexed In:
Science Citation Index - Thomson Reuters, SCOPUS, Zentralblatt Math, Mathematical Reviews (MathSciNet), SCImago (SJR), Google Scholar, WorldCat (OCLC), STMA-Z, Summon by ProQuest, J-gate, DBLP Computer Science



Differential Equations and Dynamical Systems

An International Journal for Theory, Real World Modeling and Simulations
ISSN: 0974-6870

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SCOPUS, Zentralblatt Math, Google Scholar, Academic OneFile, Emerging Sources Citation Index, Expanded Academic, Indian Science Abstracts, Mathematical Reviews, OCLC, SCImago, STMA-Z, Summon by ProQuest



Conference Website : www.tcpde.com, Inquiry & Contact : Dr. Aditya Kaushik (+91-8427580104), Dr. Minto Rattan (+91-9888497954), Email : tcpde2016@gmail.com

VENUE :

University Institute of Engineering & Technology, Panjab University, Chandigarh-160014 India