

Computational Science Symposium

16-18 March 2017 | cmg.cds.iisc.in/css



Department of Computational and Data Sciences
Indian Institute of Science, Bangalore



Computational Science is one of the emerging research fields that involves applied mathematical research in the areas of science and engineering, where the development of efficient and robust algorithms becomes crucial. In addition, implementation of scalable parallel algorithms in supercomputers plays a pivotal role in solving large scale scientific and industrial problems. The central theme of this symposium is to bring together researchers from different science and engineering disciplines and to discuss the latest developments in computational science for solving differential equations, in numerical analysis and in robust numerical algorithms including efficient parallel algorithms for high performance computing. More than 20 invited plenary speakers (academia/industry) and several contributed talks are planned.

Topics (but not limited to):

- ★ numerics of partial differential equations
- ★ fluid/solid mechanics
- ★ high performance computing
- ★ optimal controls and inverse problems
- ★ healthcare/biomedical applications
- ★ data-driven science
- ★ linear algebra for parallel computing
- ★ multiscale phenomenon
- ★ visualisation for big data

Call for papers:

Interested researchers are requested to submit an extended abstract of their original work in the above topics for paper presentation. A selected number of papers after peer review will be published after the symposium as a special issue in *Int. J. of Advances in Engineering Sciences and Applied Mathematics*, Springer or in a similar journal.

Scientific outreach:

In order to encourage young talents in higher education and in Computational Science research, travel expenses (second class train or bus fare, whichever is minimum) will be provided for selected final year students of all disciplines of B.E./B.Tech., M.Sc., M.Tech and students seeking M.Tech or PhD admissions in computational science at CDS. Diversity among the students will also be used as a criterion for selection. NO Registration fee, free accommodation and boarding will also be provided for participants selected under this category.

Plenary speakers/Scientific advisory committee:

Prof. S. Ambikasaran (IISc), Prof. N. Balakrishnan (IISc), Prof. T. Basak (IITM), Dr. Chiranjib (Shell India), Prof. S. Ganesan (IISc), Prof. Murugesan (IISc), Prof. Nagaiah Chamakuri (MEC), Prof. Neela Nataraj (IITB), Prof. Phaneendra (IISc), Prof. A. K. Pani (IITB), Prof. C. Praveen (TIFR-CAM), Prof. S. Raha (IISc), Prof. G. Rangarajan (IISc), Prof. Ratish kumar (IITK), Dr. Sajani Surendran (CSIR- 4PI), Prof. Sathish S Vadihyar (IISc), Dr. V. Senthilkumar (CSIR-4PI), Prof. S. Sundar (IITM) and Dr. Suranjan Sarkar (Shell India)...

Registration:

Registration fee is Rs. 3000 for outstation participant, who needs accommodation, and Rs. 1500 for local participant, who doesn't need accommodation. Registration fee includes conference kit, boarding and conference banquet.

Who can register (last date):

- participants without paper presentation (31/01/17)
- outreach participants (31/01/17)
- participants with paper presentation (06/02/17)

Contact:

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Last date for abstract submission 16 Jan 2017

