



BITS Pilani

Pilani | Dubai | Goa | Hyderabad

GLOBAL MEET ON COMPUTATIONAL MODELING AND SIMULATION: RECENT INNOVATIONS, CHALLENGES & PERSPECTIVES'

OCT. 16 - NOV. 07, 2020



BITS PILANI

Birla Institute of Technology and Science (BITS), Pilani is an all India institute for higher education and currently declared as one of the Indian institutes of eminence by the government of India. It has campuses in India (Pilani, Goa, Hyderabad) and abroad (Dubai). Its vision is commitment to transparency and equal opportunity for all. The mission of BITS Pilani is to advance knowledge and educate students in science and technology and other areas of scholarship that best serves the nation.

GLOBAL MEET

The world has been fighting an invisible enemy in the form of Covid-19 and the uncertainty about the future necessitates the need for strengthening our scientific research so as to enable the society to safeguard its educational system and economy in a planned and strategic manner. BITS Pilani has embraced this challenge by taking an initiative to organize a global meet on 'Computational Modeling and Simulation: Recent Innovations, Challenges & Perspectives' during Oct 16- Nov 07, 2020. Computational modelling and simulation have become the promising approach for studying the behavior of physical and complex engineering, enterprise information, agricultural and water resources, biological and communication systems before deployment in a real setting. Mathematical and computational studies are very much interesting in the sense of improving the understanding of experimental results for which experiments are intractable.

Simulation of large complex dynamic systems can be processed in an efficient manner using advanced computational analysis. The primary goal of the webinar is to strengthen University's preeminence in computational modeling and simulation by catalyzing the transformative use of innovative developments in a wide range of disciplines to achieve lasting societal impact. This is one of many steps to build collaboration with academic institutes across the globe by building a network for academicians and research scientists, allowing them to share their research contributions to the modelling and simulation driven by computational technology, thereby nurturing the future generations to become the next generation academic leaders in the field of emergent computational systems.

KEYNOTE SPEAKERS

- Prof. Joe Wagner, University of Minnesota, U.S.A
- Prof. Krishnan Balasubramanian, Arizona State University, U.S.A
- Prof. Prof. Murali Damodaran, National University of Singapore, Singapore
- Prof. Abhyuday Mandal, University of Georgia, U.S.A
- Prof. Biplab Sikdar, National University of Singapore, Singapore
- Prof. Richard Sandberg, University of Melbourne, Australia
- Prof. Olaf Deutschmann, Karlsruhe Institute of Technology, Germany
- Prof. Marielle Stoelinga, University of Twente and Radboud University, Netherlands
- Prof. V. Ravichandran, AIMST University, Malaysia
- Prof. Alexander Golberg, Tel Aviv University, Israel
- Prof. Robert J. Doerksen, Research Institute of Pharmaceutical Sciences, U.S.A
- Prof. P. P. Mujumdar, Indian Institute of Science, Bangalore, India
- Prof. Padmanabhan Seshaiyer, George Mason University, U.S.A
- Prof. Manoj Tiwari, National Institute of Industrial Engineering, Mumbai, India
- Dr. Mukesh Kumar, University of Cambridge, UK
- Prof. Sashikumaar Ganesan, Indian Institute of Science, Bangalore, India
- Prof. Michael Grinfeld, University of Strathclyde, UK
- Prof. Zhang Yong Wei, Agency for Science, Technology and Research, Singapore
- Dr. Bikash Debnath, University of Michigan, U.S.A
- Prof. Gautam Menon, Ashoka University, India
- Prof. Youcef Mammeri, University of Picardie Jules Verne, France

GLOBAL MEET SCHEDULE (Indian Standard Time)

MORNING SESSION: 10:00 AM-12:00 NOON EVENING SESSION: 6:00 PM-8:00 PM (OCT 16, STARTS AT 9:00 AM).

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| Oct 16, Friday | Computation in Optimization and Control 9:00 AM - Prof. Abhyuday Mandal 6:00 PM - BITS Pilani Presentation 7:00 PM - Prof. P. P. Mujumdar |
| Oct 17, Saturday | Multiscale and Multiphysics Modeling and Computation Analysis, Environmental Modeling 10:00 AM - Prof. Alexander Golberg 6:00 PM - Prof. Joe Wagner |
| Oct 23, Friday | Modeling Approaches to Enterprise Systems and Services 10:00 AM - Prof. Manoj Tiwari 11:00 AM - Prof. Mukesh Kumar |
| Oct 24, Saturday | Multiscale and Multiphysics Modeling and Computation Analysis- Finite Element Analysis 6:00 PM - Prof. Sashikumaar Ganesan |
| Oct 24, Saturday | High-Performance Computation/Cloud Computing Applications 10:00 AM - Prof. Biplab Sikdar |
| Oct 30, Friday | Dependability and Security 6:00 PM - Prof. Marielle Stoelinga |
| Oct 30, Friday | Computational Biology and Chemistry-Computational Biology 6:00 PM - Prof. Youcef Mammeri 7:00 PM - Prof. Gautam Menon |
| Oct 31, Saturday | Multiscale and Multiphysics Modeling and Computation Analysis- Computational Mechanics 10 AM - Prof. Murali Damodaran |
| Oct 31, Saturday | Multiscale and Multiphysics Modeling and Computation Analysis 6:00 PM - Prof. Michael Grinfeld |
| Nov 06, Friday | Multiscale and Multiphysics Modeling and Computation Analysis- Computational Mechanics 10:00 AM - Prof. Richard Sandberg 11:00 AM - Prof. Zhang Yong Wei |
| Nov 06, Friday | Multiscale and Multiphysics Modeling and Computation Analysis 10:00 AM - Prof. Olaf Deutschmann |
| Nov 07, Saturday | Computational Biology and Chemistry-Medicinal Chemistry 10:00 AM - Prof. Krishnan Balasubramanian 11:00 AM - Prof. V. Ravichandran 6:00 PM - Prof. Robert J. Doerksen 7:00 PM - Dr. Bikash Debnath |

LEADERSHIP

Prof. Souvik Bhattacharyya
Vice-Chancellor, BITS Pilani

Prof. Sudhirkumar Barai
Director, Pilani Campus

Prof. Raghurama G
Director, Goa Campus

Prof. G Sundar
Director, Hyderabad Campus

Prof. R. N. Saha
Director, Dubai Campus

INTERNATIONAL PROGRAMMES & COLLABORATION DIVISION

Prof. Dalip Kumar, Pilani Campus
Prof. Bivudutta Mishra, Hyderabad Campus

Prof. Rajesh Mehrotra, Goa Campus
Prof. K. Kumar, Dubai Campus

CO-ORDINATORS

Dr. Rajesh Kumar
Dr. Rallapalli Srinivas
Dr. Snehanshu Saha

Dr. Vikranth Kumar Surasani
Dr. Mainak Dutta

REGISTRATION

All participants can register free of charge for all sessions of global meet through online registration using the link given below.

<http://discovery.bits-pilani.ac.in/GlobalMeet/>

Any queries related to the webinar can be directed to:

globalmeet_cms2020@pilani.bits-pilani.ac.in

