



#### 4<sup>th</sup> International Conference

on

### Recent Advances in Mathematical Sciences and its Applications (RAMSA-2020) (January 09-11, 2020)

Organized by

Department of Mathematics

Jaypee Institute of Information Technology

A-10, Sector-62, Noida, U.P.-201307, India

Website: [www.ramsaconference.com](http://www.ramsaconference.com)

#### ABOUT JIIT

The Jaypee Institute of Information Technology (JIIT) is declared as a deemed to be University under section 3 of UGC Act 1956. JIIT is fully backed and supported by the Jaypee Group of Companies through its not-for-profit trust – Jaiprakash Sewa Sansthan (JSS). It is situated near the Electronic City at Noida and is at a distance of about 3 Kms from New Delhi – UP border. The state-of-the-art campus aims at becoming a center of excellence in the field of information technology & related emerging areas of education, training and research comparable to the best in the World for producing professionals who shall be leaders in innovation, entrepreneurship, creativity and management. The University offers Doctoral (Ph. D.), Post Graduate (M. Tech. and MBA) as well as Under Graduate (B. Tech.) programs in the various disciplines of Engineering, Sciences and Management. JIIT is a NAAC Accredited, AICTE approved and NIRF Ranked Institute in Delhi NCR.

#### ABOUT THE HOST DEPARTMENT

Mathematics plays a key role in the development of modern sciences, engineering, management and many other important areas of activities. With this aim in mind the Department of Mathematics was established from the very inception with a Vision to attain excellence in teaching and research and become a leader in the field of mathematics and its applications. Besides catering to the basic needs of the various B. Tech. / M. Tech. / Ph. D. programs of the Institute, it had a strong fervor towards research and development. The Department has a good blend of pure and applied Mathematicians which provides a vibrant research atmosphere. The specializations of the faculty members cover most of the important and emerging areas of Mathematics. The main research groups of the Department involve: Fractals and Chaos, Mathematical Analysis; Numerical Analysis and Computational Continuum Mechanics; Statistics, Queuing, Fuzzy and Information Theory, Wave Propagation and Wavelets. The Department is also actively involved in its own research and development activities through its M. Tech. (Applied and Computational Mathematics) and Ph.D. Programs.

#### GOAL OF THE CONFERENCE

The aim of the conference is to bring together learned mathematicians, scientists, engineers, researchers from industry and research scholars working in the different areas of mathematics. This will provide a platform for exchange of ideas regarding the research findings and new advances in mathematics in the wide area of mathematics, sciences and engineering and to discuss the practical challenges encountered in the different domains of applications and the solutions adopted thereto. Further, it will provide an opportunity to enhance collaboration among researchers not only from the various parts of the country but also with those from abroad. The scientific program will consist of Keynote/plenary/invited lectures and parallel sessions for contributed presentations. The main emphasis will be on the vibrant applicational aspects of applied mathematics in relation to diverse areas of engineering and sciences. The invited lectures and refereed contributed papers will be published in the proceedings after due reviewing process by the committee of experts in various disciplines. The conference proceedings of the previous series of RAMSA were published by **AIP (Scopus Indexed), USA**.

#### CALL FOR PAPERS

The broad topics of interest include, but are not limited to, the following:

- Algebra and Its Applications
- Analysis and Approximation Theory
- Coding, Cryptography and Information Theory
- Computational Fluid Dynamics
- Computer Graphics & Animation
- Continuum Mechanics and Vibrations
- Differential Equations and Applications
- Discrete Mathematical Structures
- Fixed Point Theory
- Fractals, Chaos and Dynamical Systems
- Fuzzy Mathematics and Logic
- Image Processing
- Numerical Analysis
- Optimization and Its Applications
- Probability, Statistics and Stochastic Processes
- Theory of Computation
- Wave Propagation
- Wavelets and Applications

#### REGISTRATION FEE\*

Participants	Abroad	India
Academicians/ Scientists	200 USD	Rs.4500**
Research Scholars	150 USD	Rs.4000
Attendee	100 USD	Rs.3000

All the accepted abstracts will be published in the abstract book supplied to all the participants at the conference venue. Submitted manuscripts will go through plagiarism check before technical review.

\*All the charges shown above are excluding the accommodation charges. Registration fee includes conference kit, lunch and tea during the conference.

\*\*Only accepted and presented paper after peer review will be published in Proceedings through reputed Publishers (Scopus Indexed) at a cost of 4000/- per paper.

## IMPORTANT DEADLINES

Submission of Abstract	September 25, 2019
Acceptance of Abstract	September 30, 2019
Submission of Full Length Paper	October 10, 2019
Notification of Acceptance	November 10, 2019
Submission of Final Manuscript	November 20, 2019

## CHIEF PATRONS

Shri Jaiprakash Gaur Ji, Founder Chancellor, JIIT  
Shri Manoj Gaur Ji, Executive Chairman, Jaypee Group.

## PATRON

Prof. S. C. Saxena, Vice Chancellor, JIIT

## COMMUNICATION

All the communications may be addressed to:  
Prof. B. P. Chamola & Dr. Pato Kumari  
Department of Mathematics  
Jaypee Institute of Information Technology  
A-10, Sector-62, Noida- 201307, U.P., India  
Phone: +91-120-2594344, Mobile: 08527533208  
**Email: conference.maths2016@gmail.com**

## INSTITUTIONAL ADVISORY COMMITTEE

Prof. Hariom Gupta, Director, Sec-128, JIIT  
Prof. D.K. Rai, Dean (A&R), JIIT

## ORGANIZING COMMITTEE

Prof. Alka Tripathi, Head, Conference Chair	Dr. Amit Srivastava, Member	Dr. Himanshu Agarwal, Member
Prof. Bhagwati Prasad Chamola, Convenor	Dr. P. K. Srivastava, Member	Dr. Pinkey Chauhan, Member
Dr. Pato Kumari, Organizing Secretary	Dr. Dinesh Bisht, Member	Dr. Amita Bhagat, Member
Prof. R. C. Mittal, Member	Dr. Anuj Bhardwaj, Member	Dr. Neha Ahlawat, Member
Prof. A. K. Aggarwal, Member	Dr. Yogesh Gupta, Member	Dr. Neha Singhal, Member
Dr. Sanjeev Sharma, Member	Dr. Puneet Rana, Member	Dr. Sheetal Deshwal, Member
Dr. Lokendra Kumar, Member	Dr. Lakhveer Kaur, Member	

## INTERNATIONAL/NATIONAL ADVISORY COMMITTEE

Prof. Jeffrey J Hunter, Auckland Univ. Technology, New Zealand  
Prof. S. G. Dani, UM-DAE Centre for Excellence in Basic Sciences, Mumbai, India  
Prof. A. K. Srivastava, BHU, Varanasi, India  
Prof. M. T. Nair, IIT Madras, India  
Prof. J. Matkowski, University of Bielsko-Biala, Poland  
Prof. Malisa Zizovic, University of Kragujevac, Serbia  
Prof. G. Godefroy, Institute of Mathematics of Jussieu, France  
Prof. Bhu Dev Sharma, Clark Atlanta University, U.S.A  
Prof. Bani Singh, IIT Roorkee, India  
Prof. G. S. Srivastava, IIT Roorkee, India  
Prof. A. Chattopadhyay, ISM Dhanbad, India  
Prof. R. P. Agarwal, Texas A&M University-Kingsville, Texas  
Prof. B. R. Kopparty, Indiana University Northwest, Gary  
Prof. K. T. Arasu, Wright State University, Dayton, U.S.A  
Prof. Karmeshu, JNU Delhi, India  
Prof. G. Rangarajan, IISc Bangalore, India  
Prof. (Dr.) Weiqiu CHEN, Zhejiang University, China

## LIST OF INVITED SPEAKERS

Prof. Vir V. Phoha, Syracuse University, Syracuse, New York  
Prof. S. Sundar, IIT Madras, Chennai, India  
Prof. Jichun Li, University of Nevada Las Vegas, USA  
Prof. Melusi Khumalo, University of South Africa, SA  
Prof. Ajay Kumar, Delhi University, Delhi, India  
Prof. Delin Chu, National University of Singapore, Singapore  
Prof. K. Sreenadh, IIT Delhi, India  
Prof. Kiran Bhutani, The Catholic University of America, USA  
Prof. Pawel Dlotko, Swansea University, UK  
Prof. Maithily Sharan, IIT Delhi, India  
Prof. Atma R. Sahu, Coppin State University, USA  
Prof. Danila Prikazchikov, Keele University, UK  
Dr. Dhananjoy Dey, SAG, DRDO, Delhi, India  
Prof. Satya Deo, HRI, Allahabad, India  
\*Prof. Amiya Kumar Pani, IIT Bombay, India  
\*Prof. Debashish Goswami, ISI Kolkata, India

\*Yet to be confirmed