



**6<sup>th</sup> International Conference**  
**on**  
**Recent Advances in Mathematical Sciences and its**  
**Applications (RAMSA-2022)**  
**(December 08-10, 2022)**  
**Organized in blended mode (Online & Offline)**  
**by**  
**Department of Mathematics**  
**Jaypee Institute of Information Technology**  
**A-10, Sector-62, Noida, U.P.-201309, India**  
**Website: [www.jiit.ac.in/jiit/RAMSA/](http://www.jiit.ac.in/jiit/RAMSA/)**

#### 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 centre 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 Institute offers Doctoral (Ph. D), Post Graduate (M. Sc., M. Tech. and MBA) as well as Under Graduate (B. Tech., B.Sc.) 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. and 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 Department is also actively involved in its own research and development activities through its B.Sc., M.Sc. and Ph.D. Programs.

#### ABOUT THE CONFERENCE

The aim of this conference is to bring together learned mathematicians, scientists, engineers, researchers from industry and research scholars working in the different areas of mathematics at a common platform. The Conference provides an excellent opportunity to researchers, practitioners and educators to present and discuss the recent innovations in mathematics for potential implementation in sciences and engineering. It focuses on strengthening the existing results along with identifying the practical challenges encountered with respect to various solutions adopted in the fields of Mathematics and its Applications. Moreover, 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 implicational aspects of applied mathematics for cultivating contemporary and advanced findings in multidimensional sphere 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 and Nova Publishers, 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

#### IMPORTANT DEADLINES

Submission of Abstract	September 10, 2022
Acceptance of Abstract	September 14, 2022
Submission of Full Length Paper	October 05, 2022
Notification of Acceptance of Paper	October 25, 2022
Submission of Final Manuscript	November 5, 2022

#### COMMUNICATION

All the communications may be addressed to:

Prof. Alka Tripathi, (Conference Chair)

Head, Department of Mathematics

Dr. Yogesh Gupta, Dr. Lakhveer Kaur, (Conveners)

Department of Mathematics

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**Email: [ramsaconference.jiit@gmail.com](mailto:ramsaconference.jiit@gmail.com)**

## REGISTRATION FEE

Participants	Mode	Registration Charges	
		Abroad	India
Academicians/ Scientists	Offline	\$300	Rs. 6,000/-
	Online	\$150	Rs. 3000/-
Research Scholars	Offline	\$200	Rs. 3000/-
	Online	\$100	Rs. 1500/-
Students (JIIT Alumni)	Offline	_____	Rs. 2000/-
	Online	_____	Rs. 1500/-
Attendee	Offline	\$100	Rs. 500/-
	Online	\$50	Rs. 300/-

### Important Points

- ✓ The registration fee for Offline Mode includes conference kit, lunch and tea during the conference.
- ✓ Only accepted and presented papers, after peer review, will be published in Indexed Proceedings/Journals (Proposal to be submitted). The publication charges (if any) for the full length accepted papers will be charged separately.
- ✓ For On the Spot Registration, 20% extra charges will be paid by the participants.
- ✓ For Early Bird Registration (**Till November 02, 2022**), 10% discount will be provided to the participants.

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Prof. G. Rangarajan, IISc Bangalore, India

Prof. (Dr.) Weiqiu Chen, Zhejiang University, China

## LIST OF INVITED SPEAKERS

Prof. R. P. Agarwal, Texas A & M University, Kingsville, Texas,  
USA

Prof. J. Matkowski, University of ZielonaGóra, Poland

Prof. Jichun Li, University of Nevada, Las Vegas, USA

Prof. Satya Deo, Harish-Chandra Research Institute, Allahabad,  
India

Prof. Kalyan Chakraborty, Kerala School of Mathematics, Kerala,  
India

Prof. Shishir Gupta, IIT (ISM) Dhanbad, India

Prof. M. Mursaleen, Aligarh Muslim University, Aligarh, India

*More to be added soon*

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