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# **International Conference on Operations Research and Decision Science** (**ICORDS 2025**)



(In honour of Prof. T E S Raghavan)



June 05-07, 2025





Organized by **Centre for Advanced Research in Applied Mathematics and Statistics (CARAMS)** 

# MAHE, Manipal, Karnataka 576 104, India

in association with Department of Applied Statistics and Data Science, PSPH, MAHE, Manipal Department of Mathematics, MIT, MAHE, Manipal T A Pai Management Institute, MAHE, Manipal

# Venue: KEF R&D Centre, MIT, MAHE, Manipal

Convener: Dr. K. Manjunatha Prasad Email: kmprasad63@gmail.com km.prasad@manipal.edu

carams@manipal.edu carams.mahe@gmail.com +91 820 2922407 5

Visit us at https://carams.in/

#### About the Conference

The present conference ICORDS 2025 provides a platform for leading Mathematicians and Statisticians around the globe, working in the area of Operations Research (OR), Management Science, Data Science, and Analytics, to get together in the physical space, discuss several research issues, and to introduce new innovations. The main goal of the conference is to bring experts, young researchers, industrialists, and students together to present recent developments in the dynamic and important fields such as optimization, scheduling paradigms, supply chain management intricacies, risk analysis frameworks, and decision-making methodologies under uncertain conditions. The conference also aims to stimulate research and support the interaction among the scientists by creating an environment for the participants to exchange ideas and to initiate collaborations and professional partnerships.

On behalf of the Scientific Advisory Committee, and the Local Organizing Committee, we have much pleasure in extending a cordial invitation to participate in this conference.

The sessions of the conference include plenary and invited talks from eminent speakers. Besides these sessions, organizers invite the participants to present their research work in the sessions of contributory talks.

Tirukkannamangai Echambadi Srinivasa Raghavan, one of the leading game theorists of our time, was born on August 05, 1940. He holds the degree of M.Sc. in Statistics (Presidency College, Madras University) and received his Ph.D. in Mathematics and Statistics from ISI Calcutta in 1968 under the guidance of legendary statistician Prof. Calyampudi Radhakrishna Rao. Prof. Raghavan's interests are Game theory; linear, non-linear programming; matrix theory; applied statistics; operations research. Prof. Raghavan has made many fundamental contributions to the field of game theory and equilibrium computations. He is well known for his contributions to game theory, decision science, and special matrices, and particularly to the topics on stochastic games and cooperative games. He has published more than 60 research papers, written 4 monographs, and guided 14 students.



Being an ardent fan of Carnatic music, he has been organizing Chicago Tyagaraja Utsavam every year in Chicago. Following the ancient Indian educational system, he has been running a Gurukulam in Game theory in his native Pulavanur, Tamil Nadu. In 2021, 2023, and 2024 the Gurukulam was organized by CARAMS, MAHE, Manipal. He is currently with the University of Illinois, Chicago, and has held many visiting positions. CARAMS, MAHE is pleased to dedicate ICORDS 2025 to him on the occasion of his 85<sup>th</sup> birthday.

**Publications:** Selected papers will get an opportunity of possible publication in a special issue of the following journals.

- Journal of Global Optimization
- Operations Research Forum
- International Game Theory Review
- Optimization

subject to acceptance after the standard peer review process adopted by the journal.

 Book chapters/expository articles are invited for the book-volume 'Applied Operations Research, Game theory, and Decision Science' which is intended to be published in some reputed series of SPRINGER.

## For more details, please visit:

#### https://carams.in/events/icords-2025/.

Papers by nonparticipants are also welcome for submitting the articles which are in the focus of the conference. Due to the limitation of the number of articles in the special issues, qualified articles presented at the conference are considered with priority. The theme of the conference shall focus on but not limited to

- Artificial Intelligence and Machine Learning
- Big Data, Business Analytics
- Linear and nonlinear Programming
- Mathematical Programming, Simulation, and Queuing
- Game Theory and their Applications
- Graph Theory and Network Optimization
- Logistic and Supply Chain Management
- Network Medicine
- Planning and Project Management
- Transportation, Scheduling, and Project
  Management
- Discrete and Combinatorial Optimization
- Multiple-Criteria Decision Making
- Stochastic and Robust Optimization
- Financial Modelling and Risk Management
- Health Care and Outbreak Management

**Best paper award:** Full research articles on any of the following themes are invited from the researchers (presenting authors) for presentation in the Best paper award competition.

# Theme 1: Modelling

Theme 2: Applications

All original papers selected for contributory sessions as well as for Best Paper Awards competition are eligible for the further review process in the appropriate conference publications. Authors may opt not to publish the presented paper in the special issue dedicated to ICORDS 2025.

#### About MAHE, Manipal

Manipal Academy of Higher Education is synonymous with excellence in higher education. MAHE is one of India's leading academic and research institutions. It ranks 7th among Indian universities as of 2022. It has been granted Institution of Eminence status by the Ministry of Education, Government of India. Over 35,000 students from 60+ different nations live, learn and play in the sprawling University town, nestled on a plateau in Udupi district of Karnataka. It also has nearly 3,000+ faculty and almost 10,000+ other support and service staff, who cater to the various professional institutions in Health Sciences, Engineering, Management, Communication and Humanities which dot the Wi-Fi-enabled campus. The MAHE has off-campuses in Mangaluru, Bengaluru, and Jamshedpur and an off-shore campus in Dubai (UAE). The Mangaluru campus offers Medical and Dental programs. The Bengaluru campus offers programs in Regenerative Medicine, Engineering, Art & Design, Humanities, Liberal Arts, Social Sciences, Law, and Management. The Dubai campus offers programs in Engineering, Management, Architecture, Information Sciences, Media Communication, etc. Every institute has world-class facilities and pedagogy, which are constantly reviewed and upgraded undergraduate, postgraduate, and postdoctoral levels at its campuses in India and overseas. For more details, visit <u>https://manipal.edu/</u>.

#### About CARAMS

CARAMS has been established in September 2018 at MAHE with the objective of fostering advanced research and training in Mathematics, Statistics and their applications. It facilitates to bridge the gap between Mathematicians/Statisticians and Applied Mathematicians working in the area of Health, Technological, and Social Sciences.

#### How to Register?

Enroll in our portal using the link <u>http://carams.in/registration</u> and then sign in 'My Page' for further registration, guidelines for online fee payment, uploading of personal information, title and abstract of talk, and any relevant information.

#### Speakers

Tiru Arthanari, University of Auckland, New Zealand	Manisha Padala, IIT Gandhinagar, India Gajendra Pratap Singh, JNU New Delhi, India Sushil Punia, IIT Kharagpur, India	
Sasmita Barik, IIT Bhubaneshwar, India		
A Chandrasekaran, Central University of Thiruvarur, India		
Thirumulanathan D, IIT Kanpur, India	TES Raghavan, Uni. Illinois at Chicago, USA	
Dipti Dubey, Shiv Nadar University, India Mallikarjuna Rao, IIT Bombay, India		
Jerzy A Filar, University of Queensland, Australia	Dietrich von Rosen, Swedish Uni. Agri. Sci., Sweden	
N. Hemachandra, IIT Bombay, India	Ashutosh Sarkar, IIM Kozhikode, India Ravi Shankar, IIT Delhi, India Sivaramakrishnan Sivasubramanian, IIT Bombay, India	
R.A.M.G. Joosten (Reinoud), University of Twente, Netherlands		
Palanivel K, VIT Vellore, India		
Arshinder Kaur, IIT Madras, India Surya Prakash Singh, IIT Delhi, India		
Nagarajan Krishnamurthy, IIM Indore, India Dominik Slezak, Uni. Warsaw, Poland		
Juan Enrique Martinez-Legaz, Uni. Aut. de Barcelona, Spain	Murali K Srinivasan, IIT Bombay, India	
Ram Kumar P N, IIM Kozhikode, India	Rajeev R Tripathi, IIM Bangalore, India	
S K Neogy, ISI Delhi Center, India	Agnieszka Wiszniewska-Matyszkiel, Uni. Warsaw, Poland	

The above is the initially confirmed list of speakers and for the update, please refer to https://carams.in/events/icords-2025/.

#### Registration Fee (MAHE Faculty/Students are exempted from paying GST)

• •	Registration Fee	
Category	Before March 31, 2025	After March 31, 2025
Foreign Delegates	300\$/275€	350\$/325 €
Foreign Accompanying	100\$/90€	100\$/90€
Industrial Participants	INR 7000 + GST	INR 8000 + GST
Indian Scholar/Faculty (ISF)	INR 5000 + GST	INR 6000 + GST
ISF Accompanying	INR 1500 + GST	INR 1500 + GST
Indian Students *	INR 3000 + GST	INR 4000 + GST

The registration fee covers accommodation at Hostel/International Guest House, MAHE, registration kit, breakfast, working lunch, and welcome dinner on 05th June.

\*: Indian students or research scholars not having any financial support of fellowship/salary. The registration fee excludes accommodation charges, which is to be paid as per norm.

Invited speakers are eligible for a registration fee waiver for the events to which he/she is invited.

Accommodation from the organizer will be arranged, if any, for the duration starting from the evening before the event and up to morning after the event.

CARAMS aims at supporting the travel and registration of senior and young scientists not having the fund support to present the paper, on the request made before May 15, 2025. However, such support (which could be partial) will be provided depending on the fund support received from the different organizations.

## Deadlines

• For early bird registration:

For abstract submission:

- March 31, 2025 May 10, 2025
- Extended abstract submission: March 31,
  - ubmission: March 31, 2025 (For presentation and special issue)

Timeline for submission of paper for journal publications: Visit publication section in carams.in/events/icords2025/.

For more details, visit: https://carams.in/events/icords-2025/