



### Chief Patrons

Dr. Ramdas M.Pai, Chancellor, MAHE, Manipal  
Dr. Udaykumar R. Yaragatti, Director (In-charge), NITK, Surathkal

### Patrons

Dr. H. S. Ballal, Pro-Chancellor, MAHE, Manipal  
Lt. Gen. (Dr) M. D. Venkatesh, Vice-Chancellor, MAHE, Manipal  
Dr. Narayana Sabhahit, Registrar, MAHE, Manipal  
Cdr. Dr. Anil Rana, Director, MIT, Manipal  
Dr. Somashekara Bhat, Joint Director, MIT, Manipal

### Honorary Chairs

Dr. Chandrashekar Bhat, Associate Director, QA, MIT, Manipal  
Dr. Shrikantha S. Rao, Professor, NITK, Surathkal  
Dr. S. M. Kulkarni, Dean (R&C), NITK, Surathkal

### General Chairs

Dr. Bidyadhar Subudhi, Professor, IIT Goa, India  
Dr. Sanjay Sharma, Associate Professor, University of Plymouth, United Kingdom  
Dr. Pramod M. Padole, Director, VNIT, Nagpur, India

### Organizing Chairman

Dr. D. V. Kamath, Professor and Head, Mechatronics, MIT, Manipal  
Dr. Ravikiran Kadoli, Professor & Head, Mech. Engg, NITK, Surathkal

### Organizing Secretary

Dr. Ankur Jaiswal, MIT, Manipal  
Dr. Arun Kumar Shettigar, NITK, Surathkal  
Dr. K Abhimanyu K Patro, MIT, Manipal  
Dr. Umesh Kumar Sahu, MIT, Manipal

### Organizing Joint Secretary

Dr. Vijay Mohan, MIT, Manipal  
Dr. Vijay Babu Koreboina, MIT, Manipal  
Mr. D A P Prabhakar, MIT, Manipal  
Dr. Narendra Kumar, NIT, Jalandhar  
Dr. Ravi Pratap Singh, NIT, Jalandhar

### Publicity and Sponsorship Chairs

Dr. Vijay Desai, NITK, Surathkal  
Mr. Rajshekhar Uchil, ISA Bangalore Section  
Dr. Vinay Kumar Jadoun, MIT, Manipal

### Publication Committee

Dr. Santhosh K V, MIT, Manipal  
Dr. Narendra Khatri, MIT, Manipal

### International Program Committee

Dr. Utkal Mehta, University of South Pacific, Fiji  
Dr. Hasmat Malik, BEARS, NUS Campus, Singapore  
Dr. Nishant Tripathi, SNR University, Russia  
Dr. H. S. Krishnamoorthy, Uni. of Houston, Texas  
Dr. Akshay K Rathore, SIT, Singapore  
Dr. G. Singh, University of Johannesburg, SA  
Dr. Ankit A Ravankar, Tohoku University, Japan  
Dr. Munendra Singh, Johns Hopkins, Maryland, USA  
Dr. Hithesh K Gatty, KTH Royal Institute of Technology, Sweden  
Dr. Naveen Srivastava, BITS Pilani, Dubai  
Dr. Nikhil Pachauri, Gwangju Institute, South Korea  
Dr. Saurabh Agarwal, Kyungil University, South Korea  
Dr. Mohan Lal Kolhe, University of Agder, Norway  
Dr. S. Padmanaban, Aarhus University, Denmark  
Dr. Tarlochan Sidhu, Ontario Tech University, Canada  
Dr. Angel Arul Jothi, BITS, Pilani, Dubai  
Dr. Hyunsung Kim, Kyungil University, South Korea  
Dr. Antar S. H. Abdul-Qawy, SUMAIT Uni., Tanzania  
Dr. S. S. Reddy, Woosong University, South Korea

## International Conference

on

# Robotics, Control, Automation and Artificial Intelligence

## (RCAAI-2022)

24<sup>th</sup> to 26<sup>th</sup> November 2022

(Virtual Mode)



### Organized by

**Department of Mechatronics**  
Manipal Institute of Technology, Manipal  
MAHE, Manipal, Karnataka, India

in  
collaboration  
with

**Department of Mechanical Engineering**  
National Institute of Technology Karnataka  
Surathkal, Karnataka, India

RCAAI-2022 is the first series of interdisciplinary International Conference on Robotics, Control, Automation, and Artificial Intelligence. It will provide a forum for researchers, industrial fraternity, and academia to deliberate and exchange problems and ideas on the latest trends in Robotics, Control, Automation, and Artificial Intelligence.

## Conference Scope

The scope of the conference includes recent development in the field of Robotics, Control, Automation and Artificial Intelligence but is not limited to:

- Track-1:** Robotics & Intelligent Systems
  - Track-2:** Advanced Control Techniques
  - Track-3:** Ind. Automation, IoT & Cyber-Security
  - Track-4:** Machine Vision & Image Processing
  - Track-5:** Circuits, Sensors & Biomedical Systems
  - Track-6:** Artificial Intelligence & its Applications
  - Track-7:** Automated & Digital Manufacturing Sys.
  - Track-8:** Emerging Materials & AI/ML Applications in Materials Processing & Design
  - Track-9:** Optimization Technique for Industrial Applications
- "Best paper awards to be won for each Track"**

## Call for Papers

Original contributions are invited from prospective authors with interests in the indicated conference topics and related areas of application. All contributions should be high quality, original and not published elsewhere or submitted for publication during the review period. The papers can be theoretical, practical and application-oriented on the conference tracks.

**Visit for Full-Length Paper Guidelines:**

<https://conference.manipal.edu/RCAAI2022/Submission.aspx>

**Paper Submission Link:**

<https://easychair.org/conferences/?conf=rcaai2022>

## Important Dates

Last date for Full length paper submission::	<b>July 20, 2022</b>
Full Paper Acceptance Notification:	<b>September 10, 2022</b>
Registration begins:	<b>July 30, 2022</b>
Registration Closes:	<b>September 20, 2022</b>
Camera-ready papers submission:	<b>September 20, 2022</b>

All the accepted and presented papers of conference will be published in Scopus indexed proceedings with Springer in their prestigious **Lecture Notes in Electrical Engineering (LNEE)** series (<https://www.springer.com/series/7818>).

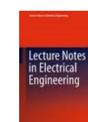
Scopus indexed Special Issues and Book Chapters will be updated in [conference website](https://conference.manipal.edu).

## Registration

Participants	Participants from India		Participants from Abroad
	MAHE	Non-MAHE	
UG, PG Students and Research Scholars	<b>INR 2000</b>	<b>INR 2500</b>	<b>USD 100</b>
Academic/Govt. R&D Organizations	<b>INR 3000</b>	<b>INR 3500</b>	<b>USD 150</b>
Industry	<b>INR 4000</b>	<b>INR 5000</b>	<b>USD 200</b>

The Registration Fee includes:

- Registered authors will receive conference kit and certificate.



# Springer



## Contact

**The Organizing Secretary, RCAAI-2022,**  
Department of Mechatronics,  
Manipal Institute of Technology, Manipal,  
Manipal Academy of Higher Education  
(MAHE), Manipal 576104, Karnataka, India.  
Email: [rcaai.mit@manipal.edu](mailto:rcaai.mit@manipal.edu)

## Sponsors & Knowledge Partner



<https://conference.manipal.edu/RCAAI2022/>