

## MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education is synonymous with excellence in higher education. Over 28,000 students from 57 nations live, learn and play in the sprawling University town nestled on a plateau in Karnataka's Udupi district. It also has nearly 2500 faculty and almost 10000 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 University has off-campus in Mangalore and Bangalore and off-shore campuses in Dubai (UAE) and Melaka (Malaysia). The Mangalore campus offers medical, dental, and nursing programs. The Bangalore Campus offers programs in Regenerative Medicine. The Dubai campus offers engineering, management, and architecture programs, and the Melaka campus offers programs in medicine and dentistry. Every institute has world-class facilities and pedagogy, constantly reviewed and upgraded to reflect the latest trends and developments in higher education.

## NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

National Institute of Technology Karnataka, Surathkal is located in Mangalore City, Karnataka State, India. The Institute was established as Karnataka Regional Engineering College (KREC) in 1960, and upgraded as National Institute of Technology Karnataka (NITK) in 2002. Mangalore is the headquarters of the coastal district of Dakshina Kannada, and boasts an important centre of education, business and trade in the state. Sri. U. Srinivasa Mallya, a visionary and a philanthropist, contributed immensely to the development of the coastal region of Karnataka, and his effort towards establishment of KREC (now NITK) is the most significant one. In recognition of his role as the founder and architect of the institute, the campus premises is named after him as Srinivasnagar.

## REGISTRATION

Participants	MAHE/NITK	Others
UG, PG Students and Research Scholars	INR 3500	INR 4000
Faculty from Academia	INR 4500	INR 5000
Industry	--	INR 6000

\*Additional 18 % GST for participants from NITK and others

3 GOOD HEALTH AND WELL-BEING



4 QUALITY EDUCATION



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



17 PARTNERSHIPS FOR THE GOALS



## SCOPE OF THE CONFERENCE

The scope of the RCAAI 2023 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 Systems
- Track-8:** Emerging Materials & AI/ML Applications in Materials Processing & Design
- Track-9:** Optimization Technique for Industrial Applications

## IMPORTANT DATES

Last date for Full length paper submission	August 15, 2023
Full paper acceptance notification	August 30, 2023
Registration Start Date	September 1, 2023
Registration Close Date	September 10, 2023
Camera ready papers submission	September 15, 2023

Accepted papers to be published in Springer Proceedings : Lecture Notes in Electrical Engineering

## CALL FOR PAPERS

Prospective authors are invited to submit original contributions on the indicated conference topics and related areas of application. We seek high-quality, unpublished work that has not been submitted for publication or is under review elsewhere. The papers should encompass theoretical, practical, and application-oriented content within the conference tracks.

Paper Submission



Conference Website



Contact Us : [rcaai2023.mit@manipal.edu](mailto:rcaai2023.mit@manipal.edu)

: 9901099630, 8657398230, 9400423775



Springer



# 2ND INTERNATIONAL CONFERENCE ON ROBOTICS, CONTROL, AUTOMATION AND ARTIFICIAL INTELLIGENCE (RCAAI 2023)

OCTOBER 12 -14, 2023

Organized by

Department of Mechatronics

Manipal Institute of Technology, Manipal, India

Department of Electronics and Communication Engineering,  
National Institute of Technology Karnataka, Surathkal, India

## MECHATRONICS DEPARTMENT, MIT, MANIPAL

The Department of Mechatronics established in the year 2006 offers undergraduate (B.Tech. in Mechatronics), post-graduate (M. Tech. in Industrial Automation and Robotics) and Ph.D. programs in Mechatronics. It has state-of-art research facilities to support academics and advanced research. Department is well equipped with laboratories set up in collaboration with Bosch Rexroth India Pvt. Ltd., which includes some of the finest automation equipment: Industrial Hydraulics, Industrial Pneumatics, Programmable Logic Controllers, Drives and Control, and Sensors. On the other hand, the Robotics Lab has been set up in collaboration with ABB, Bangalore. In keeping up with the latest advancements in technology, the department has set up labs such as E-Yantra lab and Internet of Things (IIoT) lab respectively in collaboration with IIT Bombay, Mumbai and Beckhoff Automation India Pvt. Ltd. along with Texas Instruments as a University Program Initiative.

## ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT, NITK, SURATHKAL

The Electronics and Communication (E&C) Engineering Department was established in the year 1979. The Department offers an Under Graduate program in Electronics and Communication Engineering, a PG program in VLSI design and a PG program in Communication Engineering. In addition to these, it also offers MTech (Research) and PhD programs in the three streams of VLSI design, Digital Signal Processing and Communication Engineering which provide a platform for bright graduates and postgraduates to conduct research in state-of-the-art technologies. The Department is also a recognized center under the Quality Improvement Program (QIP) of the Government of India

## HOW TO REACH MIT, MANIPAL

By Air: The nearest airport is Mangalore which is max. 90 minutes' drive by road.

By Rail: The closest railway stations are at Udipi (2 kms from Manipal) and Mangalore (65 kms from Mangalore)

By Road: Manipal is well connected with the major cities in Karnataka, Kerala, Goa, etc. Buses run between Mangalore and Manipal frequently. Direct buses are also available from Bangalore, Goa, Hyderabad, Mumbai and other major cities

## ABOUT CONFERENCE

RCAAI-2023 is the 2nd series of the interdisciplinary International Conference on Robotics, Control, Automation, and Artificial Intelligence jointly organized by the Department of Mechatronics, Manipal Institute of Technology, Manipal Academy of Higher Education (MAHE), Manipal, India, and the Department of Electronics and Communication Engineering, National Institute of Technology Karnataka (NITK), Surathkal, India. It provide a platform for researchers from industry and academia to exchange ideas on the latest trends in Robotics, Control, Automation, and Artificial Intelligence. Eminent speakers from IIT, NIT, Universities, and Industries shall deliberate with the participants on the latest developments in Robotics, Control, Automation, and AI and the way forward.

## CHIEF PATRONS

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