



# 4<sup>th</sup> International Conference on Circuits, Control, Communication and Computing (I4C - 2022)

December, 21<sup>st</sup> - 23<sup>rd</sup> 2022

*Theme: Smart and Sustainable Technology for Engineering & Healthcare*  
*M S Ramaiah Institute of Technology, Bangalore, India*

**RAMAIAH INSTITUTE OF TECHNOLOGY**

(Autonomous Institute, Affiliated to VTU)  
Approved by AICTE, New Delhi & Govt. of Karnataka  
Accredited by NBA & NAAC with A<sup>+</sup> Grade

[www.i4c2022.com](http://www.i4c2022.com)

# ABOUT MSRIT

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Dr. M. S. Ramaiah a philanthropist, founded 'Gokula Education Foundation' in 1962 with an objective of serving the society. M S Ramaiah Institute of Technology (MSRIT) was established under the aegis of this foundation in the same year, creating a landmark in technical education in India. MSRIT offers 17 UG programmes and 15 PG programmes. All these programmes are approved by AICTE. All eligible UG and PG programmes are accredited by National Board of Accreditation (NBA). The institute is accredited with 'A+' grade by NAAC in March 2021 for 5 years. M S Ramaiah Institute of Technology has obtained "Scimago Institutions Rankings" All India Rank 107 for the year 2022. As per the National Institutional Ranking Framework (NIRF), MoE, Government of India, M S Ramaiah Institute of Technology has achieved 67<sup>th</sup> rank among 1249 top Engineering Institutions of India for the year 2022 and is 1<sup>st</sup> amongst the Engineering colleges affiliated to VTU, Karnataka.

## ABOUT THE CONFERENCE

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The institute has initiated organization of International Conferences for both circuit and non-circuit branches once in two years since 2014. This bi-annual conference, organized by circuit branches namely Departments of Computer Science and Engineering, Information Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Electronics and Telecommunication Engineering, Electronics and Instrumentation Engineering, Medical Electronics Engineering and Master of Computer Applications is titled "International Conference on Circuits, Control, Communication and Computing (I4C)". This is the 4<sup>th</sup> International Conference in series, I4C-2014, I4C-2016 and I4C-2018 were conducted in the past years. The International Conference on Circuits, Communication, Control and Computing

I4C-2022 believes that the grand engineering challenges of the 21<sup>st</sup> century can only be addressed in an inter-disciplinary and cross disciplinary manner. This has enthused the conference organizers to combine all the major domains of Electrical Sciences in the theme of the conference. This conference will be an international forum for engineers, researchers, scientists, graduate students and industry professionals to cross the design-technology boundary through interactions with design, technology and process experts in order to develop the skills for future research and development. This will foster an environment for exchanging breakthrough ideas and collaborate effectively. A one day pre-conference tutorial precedes two days of technical presentations.



# CONTROL SYSTEMS

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- Analytical and Industrial instrumentation
- MEMS, IoT
- QoS Management in IoT Networks
- Smart Grids and Microgrids
- Healthcare Modeling and Simulation
- Sensors and Instrumentation
- Non-Linear Control Systems
- Brain-Computer Interfaces
- Biomedical Modeling and Simulation
- Power Electronics and Drives
- HVAC, HVDC, and FACTS
- Renewable Energy sources
- Solar Power Systems
- Distributed Generation
- Optimal Control Systems
- Adaptive Control Systems
- Robotics

# COMPUTING & INTELLIGENT SYSTEMS

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- Data Mining
- Big Data / Data Analytics
- Neural Networks
- Deep Learning
- Biometrics
- DNA Computing
- Computational Biology
- Computer Aided and Automated Diagnosis
- Pattern Analysis for Biomedical Applications
- Mobile Computing
- Fault Tolerant Computing System
- AI, ML, Block-chain technologies
- Explainable AI
- Statistical Inference
- Bioinformatics
- Biology-inspired Computational Methods
- Medical and Biological Databases
- Biomedical Signal Processing
- Medical Informatics
- HPC, HCI
- Cryptography and Network Security



# COMMUNICATION SYSTEMS

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- Wireless Sensor Networks
- Mobile/Ad-hoc Networks
- Vehicular Communication Networks
- 4G/5G/Next-generation Network Evolutions
- Mobile and Wireless Communication
- Optical, RF and Microwave Communications
- Industrial networking and communication protocols
- Sensing and Sensor Networks
- Test and Reliability
- Healthcare Communication Networks and Environments
- Clinical Engineering and Health Technology Assessment
- Health Informatics, e-Health and Telemedicine
- mHealth
- Industrial Data Networks
- Cloud and IoT Networks
- Cyber Physical Systems

## HIGHLIGHTS OF I4C – 2022

- Platform for exchanging breakthrough ideas in an interdisciplinary manner.
- Keynote and Plenary talks by distinguished researchers from across the world.
- Seven technical sessions comprising of varieties of topics related to Circuits, Control Systems, Computing & Intelligent Systems and Communication Systems
- Intensive, one day pre-conference tutorial on advanced topics.

## SUBMISSION POLICY / GUIDELINES

- Author/s shall prepare the full Manuscript as per the IEEE template. A maximum of six pages is permitted. Additional page will incur extra fee. (INR 1000 or \$50 for one extra page)
- Submission of a manuscript implies: that the work described has not been published before; that it is not under consideration for publication anywhere else; that its publication has been approved by all co-authors, if any, as well as by the responsible authorities – tacitly or explicitly – at the institute where the work has been carried out.
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Submission link: <https://easychair.org/conferences/?conf=i4c2022>

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## IMPORTANT DEADLINES

- » Manuscript Submission  
15<sup>th</sup> September, 2022
- » Acceptance Notification  
30<sup>th</sup> September, 2022
- » Camera Ready Submission  
20<sup>th</sup> October, 2022
- » Registration  
1<sup>st</sup> December, 2022
- » Conference Dates  
21<sup>st</sup> – 23<sup>rd</sup> December, 2022

## CONFERENCE REGISTRATION

Each accepted paper must have one Author Registration by 01 December 2022 to guarantee the paper to be included in the conference proceedings. One Author registration covers one paper only.

### Registration Fee

- » Authors  
IEEE Members: **INR 5000 | USD 65**  
Non - IEEE Members: **INR 7500 | USD 100**
- » Delegates  
IEEE Members: **INR 3500 | USD 45**  
Non - IEEE Members: **INR 5500 | USD 70**
- » Students  
IEEE Members: **INR 2000 | USD 25**  
Non - IEEE Members: **INR 3000 | USD 40**
- » Industry: **INR 8000 | USD 120**
- » Pre-Conference Tutorial Only  
**INR 1000 | USD 15**

## VIRTUAL PRESENTATION

Due to the Pandemic situation, the Organizers of the I4C-2022 Conference have decided to allow the **International Authors** to present their papers in Virtual mode. If the Authors are willing to travel and attend and present the paper, the Visa letter shall be issued by the conference General Chair. Such Authors can visit the conference website [www.i4c2022.com](http://www.i4c2022.com) for the Travel/ Accommodation Guidelines

### Virtual Author Registration

The author will receive the presentation certificate and one copy of the electronic proceedings.

### Virtual Registration Fee

(Applicable to International Authors only)

- » IEEE Member and Non- Member  
**USD 150**
- » IEEE Student Member and Student Non-Member (UG and PG)  
**USD 75**
- » Industry  
**USD 200**

For Registration and Payment Details, visit [www.i4c2022.com](http://www.i4c2022.com)

# IMPORTANT POLICIES

1. Non-Presented Paper (No-Show) Policy: Any accepted paper included in the final programme is expected to have at least one author or designated proxy attend and present the paper.
2. Accepted papers without author participation in the assigned session either in person or in virtual mode (applicable to International Authors only) will be marked as a "no show" paper and will not be published by IEEE on IEEE Xplore® or other public access forums, but the copyright of these papers will belong to the IEEE.
3. Exceptions to this policy will be made by the Technical Program Chair(s) of the conference only if there is evidence that the "no show" occurred because of unanticipated events beyond the control of the authors.
4. Refund Policy: All registration fees are non-refundable.
5. All organizers and participants are expected to adhere to the Host institute's code & conduct and IEEE code & conduct policies during the conference.
6. Any Conference related queries can be mailed to **i4c2022@msrit.edu**

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