



Instrument Society of India
Department of
Instrumentation & Applied Physics
Indian Institute of Science, Bangalore



KUMARAGURU
college of technology
character is life

Departments of
Electronics & Instrumentation Engineering,
Electrical & Electronics Engineering,
Bio-Technology, Science & Humanities
Kumaraguru College of Technology
Coimbatore



Instruments Research & Development
Establishment (IRDE)
**Defence Research & Development
Organisation (DRDO)**
Dehradun

NATIONAL SYMPOSIUM ON INSTRUMENTATION

NSI-42

Focal Theme AI, ML and IoT Paradigms
in Instrumentation and Automation

December 28 & 29, 2020

Virtual Mode



TOPICS

Artificial Intelligence (AI), Machine Learning (ML) and Internet of Things (IoT) paradigms in Instrumentation and Automation

Emerging Trends:

- Sensors for Agriculture and Food Industry
- Nuclear Medicine
- Plant Design and Simulation

Life Sciences Applications (domains):

- Biomedical Instrumentation & Healthcare Technologies
- Fluorescence Diagnostics and Instrumentation
- Bioprocess Instrumentation and Control

State-of-the-Art:

- Wireless and Flexible Sensors
- Process Automation
- Adaptive and Robust Control
- Intelligent Control

Automotive Instrumentation:

- Intelligent Transportation Systems
- Recent trends in e-vehicles and Hybrid Vehicles

Electro-optics & Photonics:

- Electro-optics for Strategic applications
- Optoelectronic and Photonic Devices

Electrical (power) Perspectives:

- Research Avenues in Smart grid
- Energy Conservation and Renewable Energy
- Microgrid and Smart grid Applications
- Energy Storage and Battery Management Systems

Cutting-Edge Technologies:

- Microfluidics
- MEMS and NANO Technology
- Energy Harvesting
- Industry 4.0
- Robotics and Control
- Structural Health Monitoring

IMPORTANT DATES

REGISTRATION FEE

Delegates: ₹ 950/-
ISOI Life Members: ₹ 750/-
Research Scholars / Students: ₹ 650/-
ISOI Student Members: ₹ 500/-

Last Date for Submission of Abstracts:
08 December, 2020

Intimation of Acceptance:
12 December, 2020

Last Date for Registration:
16 December, 2020

Conference Dates:
28 & 29 December, 2020

Abstracts Submission: The Hon. General Secretary, Instrument Society of India, Department of Instrumentation, Indian Institute of Science, Bangalore - 560012, Tel: **22932273**
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