

International Conference on Energy, Power and Environment (Towards Clean Energy Technologies)

September 04 – 06, 2020
National Institute of Technology Meghalaya, Shillong, India



ICEPE 2020

ICEPE 2020 Special Session (SS-17)

1. Title of the special session

Micro/Nano Devices and Their Application in Health and Environmental Monitoring

2. Aims & Scope of the Session:

This special session focuses on current improvement and future trends of Micro/Nano devices, micro-fabrication technologies, flexible electronics, RF MEMS, Bio-MEMS, energy harvesting, nanotechnology, VLSI and systems with a scope of nano-electronics, sensor technology, smart transport, photonics and quantum computing technologies, for a better tomorrow's world. Fundamental studies, device modeling, simulation, fabrication as well as prototyping of electronics devices and application developments targeting to particular areas are welcomed.

3. Topics of interest include, but are not limited to:

- Wearable and Flexible Electronics
- Micro/Nano Devices and Systems (MEMS/NEMS)
- Simulation of Micro/Nano devices and VLSI design
- Energy Harvesting Applications
- Micro/Nano Fabrication
- Micro/Nanoelectronics, Bio-MEMS
- Nanotechnology, Solar cells
- Synthesis of Nanomaterials
- Functional Materials and Their Applications
- Smart Cities and Smart Transport using IOT
- Optoelectronic Devices
- Photonics, Quantum Computing

4. Special Session Organizers:

Dr. Priyanka Dwivedi
Assistant Professor,
Department of Electronics and Communication Engineering,
IIIT Sri City, Chittoor Andhra Pradesh
(Institute of National Importance)
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Dr. Priyanka Dwivedi is currently an Assistant Professor in Department of Electronics and Communication Engineering at Indian Institute of Information Technology, Sri City. Her current research projects focus on Micro/Nano devices, Flexible Electronics, Neuro-morphic Computing, BioMEMS for Environmental and Health issues. She completed her Ph.D. from Indian Institute of Technology Delhi followed by Postdoc from USA. She has published patents, peer-reviewed journals and conferences in the area of micro sensors and MEMS technology. She has received IEEE NTC award in IEEE NANO 2017 at Pittsburgh USA. She is also a reviewer for IEEE Sensors, Elsevier, Wiley and IET journals.