

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-03)

1. Title of the special session

Sensors & Actuators in Modern age Research

2. Aims & Scope of the Session:

Today's world is tending towards advancement of technology where Sensors are playing a dynamic role for that. Artificial Intelligence to Industrial application measurement techniques of sensors are significant part of research. This session will focus on the topic covering Instrumentation application in human life.

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

- a. Sensor and actuator application in Electrical system.
- b. Sensors in Biomedical application
- c. Sensors in Robotics & Mechatronics.
- d. Sensors in Health care
- e. Sensors in Industrial application
- f. Sensors in Artificial Intelligence / Machine Learning
- g. Sensors in IoT application.
- h. Sensors in agriculture and Environment

4. Special Session Organizers:

- a. Prof. (Dr.) Subrata Chattopadhyay, schattopadhyay@nitttrkol.ac.in

Prof. Dr. Subrata Chattopadhyay was born in India in 1965. He received his Ph. D (Tech) in Instrumentation Engineering from the University of Calcutta, India in 2006, preceded by M. Tech [Instrumentation], B. Tech. [Electrical] and B. Sc (Hons) in Physics, in 1993, 1991 and 1987 respectively. He served as a Deputy Manager [Projects & Maintenance] in Electrical and Instrumentation Engineering of Chemical and Manufacturing Industries in India and then joined as an Assistant Professor in Electrical Engineering Department of National Institute of Technical Teachers' Training and Research, Kolkata, under Ministry of Human Resource Development, Government of India in 2003. At present he is working as a Professor in Electrical Engineering and In-charge of NITTTR Kolkata Extension Centre, Bhubaneswar, India. He introduced, as head of Electrical Engineering Department, a new Post Graduate Programme [M. Tech. in Mechatronics Engineering], first of its kind in Eastern India at NITTTR Kolkata, with required development of the Department to accommodate the same. He is highly involved in Teaching and Research and his present investigation is on innovation of noble techniques of measurement and control based on Sensor and Transducer development, Process Automation, PLC and Distributed Control System, Mechatronics, Robotics etc. He has guided one research scholar who have been awarded with Ph. D. (Tech.) degree from the National Institute of Technology, Durgapur, India. Presently, five scholars are working under him for the Ph. D. degree. He has around 100 papers in international and national journals and conference proceedings.

b. Dr. Srijan Bhattacharya

Dr. Srijan Bhattacharya, *Member, IEEE, IE(I), Life Member TRS, AMM, ISOI*, is an *Assistant Professor* Applied Electronics & Instrumentation Engg. in RCC Institute of Information Technology, Kolkata. His research interest on Mechatronics system design, Sensors, Smart Materials and Instrumentation, etc. He did B.E. from Gandhi Institute of Engineering & Technology (Presently GIET University), Orissa, India and M. Tech in Electrical Engineering (Specialization Mechatronics) with Gold Medal from National Institute of Technical Teachers Training & Research (NITTTR), Kolkata, India and PhD from Indian Institute of Engineering Science and Technology (IEST), Shibpur, India. He was awarded TEQIP - II Fellowship for PhD from Bengal Engineering & Science University, Shibpur, Adarsh Vidya Saraswati Rashtriya Puraskar, a National Award of Excellence in 2019. He was a visiting lecturer in IEST-Shibpur, NITTTR-Kolkata. His Published book – “Advancements in Instrumentation and Control in Applied System Applications” as single editor with IGI Global. He has published 30+ peer-reviewed journals and conference papers in IEEE, ACM, Taylor & Francis, Springer, Elsevier, etc. Srijan was invited as keynote/invited speakers in different conferences/universities (ISRO, GIST-Haldia etc,.). He has established several international/National MOU/collaborations (e.g., University of Dhaka, GIET University (upcoming on Dec-2019). He has been involved with some academic & editorial activities: e.g Member Board of Studies (AEIE) MAKAUT, co-ordinator of – Student Chapter RCCIIT - The Robotics Society (Robotic Society of India), Guest Editor of Sensors & Transducers Journal, International Sensor Frequency Association Publishing (IFSA), Editorial Board Member – Glacier Journal of Scientific Research etc.