

International Conference on Intelligent Controller and Computing for Smart Power, 2022

July 21st -23rd, 2022!! Hyderabad, India

Special session

1. **Title of the Special Session: [Advanced Control and Protection Schemes for Active Distribution Networks](#)**

2. **Aim & Scope of the Session and Topics (100-200 words).**

The aim of this session is to provide an opportunity to discuss various control and protection related challenges of renewable penetrated distribution system by focusing on advanced methodologies which can enhance the operation of such systems. It also provides a forum for researchers from academia and professionals from industry to handle these challenges and discuss and exchange knowledge and best practices about design and implementation of renewable energy-based systems.

The special session strives over the following topics related to smart, sustainable and advanced renewable penetrated power network.

- Renewable Energy (RE) Sources and distributed generation
- Power System protection
- Power system resiliency
- Control of renewable based distribution system
- Signal Processing Analytics
- Transmission System Technologies, HVDC & FACTS
- Grid integration of renewable energy systems
- Power Electronics & Control for renewable based system
- Energy Storage System & Grid Integration
- Future Challenges and Directions for Renewable Energy Systems.
- Power Converter Topologies and Design
- Multilevel and High-Power converters
- Grid-Interactive Power Converters

3. **Special Session Organizers (names, designation, affiliation and contact emails)**

a). Prof. Gayadhar Panda, FIE, SMIEEEE, LMISTE
Professor, Department of Electrical Engineering,
National Institute of Technology Meghalaya
Bijni Complex, Laitumkhrah, Shillong, Meghalaya-793003
Ph. 9485177030 (O), 9439926960 (M)
Email: p_gayadhar@yahoo.com, gayadharpanda@gmail.com, gayadhar.panda@nitm.ac.in Ph.
9485177030 (O), 9439926960 (M)

b) Dr. Monalisa Biswal, SMIEEEE
Assistant Professor
National Institute of Technology Raipur
G.E. Road, 492010, Raipur
Chhattisgarh, INDIA
Ph. 9437058624, Email: mbiswal.ele@nitrr.ac.in, monalisabiswal22@gmail.com

4. Special Session Organizers (short bios with photo).

Gayadhar Panda holds Professor position in the department of electrical engineering at National Institute of Technology Meghalaya, India. He obtained his ME in Power Electronics from Indian Institute of Engineering Science and Technology (IEST) Shibpur, Howrah, India and PhD in the area of Automatic Generation Control from Utkal University, India in the year 1998 and 2007, respectively. Dr. Panda is a Senior Member of the Institute of Electrical and Electronics Engineers (IEEE), U.S.A and fellow of IE (India). His name has featured in the subject wise ranking of **world's top 2% scientist** by "Ioannidis JPA, Boyack KW, Bass J (2020) updated science-wide author data bases of standardized citations indicators, He has published more than 120 technical papers in national and international reputed journal like **IEEE Trans, IET,ITEES, IJEPES,JEEPS** etc and conference. He has published more than 20 book chapters in reputed books of reputed publishers. He has published 2 Indian. He is a recipient of the Power Medal, IE (India) for one of the research papers. He has more than 22 years of teaching experience. He has guided nine number of Ph.D Scholar and currently 5 candidates are pursuing PhD, He has guided more than 20 number of M-Tech students. He has published a number of book chapters. He is handling a number of projects sponsored by DST, Govt.of India and other agencies. His current research interests include design, implementation, and operation of AC/DC microgrid with interfacing converters that use digital signal processing, artificial intelligence techniques and other novel control methods.



GAYADHAR PANDA (PhD)

Monalisa Biswal received the M. Tech and Ph. D. degrees from Veer Surendra Sai University of Technology Burla and Sambalpur University, Odisha, India, in 2008 and 2013. She has more than 6 years of Industrial experience. Since from 2013 she is working as an Assistant Professor in the Department of Electrical Engineering in National Institute of Technology Raipur, Chhattisgarh, India. Dr. Biswal is a recipient of POSOCO Power System Award-2014, DST-SERB Young Scientist Award-2015, Chhattisgarh Young Scientist Award-2017. She is a Senior Member of the Institute of Electrical and Electronics Engineers (IEEE), U.S.A. She has published over 90 journal articles, presented papers at conferences, and has published several chapters in books. She has one published book: Microgrid: Operation, Control, Monitoring and Protection, Springer Singapore, 2020. She is a PI of 3 projects funded by SERB, New Delhi India, and EriGrid. She has conducted many national level courses. She has provided many invited talks and chaired in conferences. Her area of research includes Microgrid protection, Smart Grid, and Protection of Power Network.



MONALISA BISWAL (PhD)