



**International Conference on Intelligent Controller and Computing for Smart Power, 2022**  
**July 21st -23rd, 2022 !! Hyderabad, India**



Sreenidhi Institute of Science and Technology, Hyderabad, India

## **ICICCSP 2022 Special Sessions** **on**

**“Title of the special session”**

### **Improvement of Grid Resilience using Energy Intelligence**

#### Aims & Scope of the Session:

M With the increasing demand to decrease carbon emissions, integration of renewable energy sources with main grid is taking place. This transition presents many challenges in the form of deteriorating grid resilience. The goal is to make the network more adaptive so that it can resist disturbances and bounce back with minimal downtime or disruptions. Artificial Intelligence (AI) can balance electricity supply and demand needs in real-time, optimize energy use and storage to reduce rates thus, making an AI-centered system a potential game-changer. Shifting to an AI-centered system enables now-forecasting and control resulting in a grid that is more resilient and flexible when unforeseen events occur.

Therefore, this special session invites research papers from the following list of topics (but not limited to) to further recognize the importance of AI in making grid resilient:

- AI for Energy and Society
- Intelligent Sensor, Devices & Application
- Intelligent Control of Energy Systems
- Data Mining and Machine Learning Tools
- Power System Stability and Control
- Reliability and Security
- AI Applications in Microgrid
- Cyber Security
- Cyber Physical Systems
- AI for Power Optimization

Special Session Organizers

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

**Dr. Ritula Thakur**

Associate Professor,  
Electrical Engineering Department,  
National Institute of Technical Teachers Training & Research, Chandigarh- 160019  
Email: [ritula@nitttrchd.ac.in](mailto:ritula@nitttrchd.ac.in)  
Mobile: +91-6283079912, +91-988852284

**Dr.P. Rangababu**

Assistant Professor  
Department of Electronics and Communication Engineering  
NIT Meghalaya  
E-Mail: [p.rangababu@nitm.ac.in](mailto:p.rangababu@nitm.ac.in)

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

Dr. Ritula Thakur received B.E degree in Electrical engineering with Honours, M.E. degree in Power systems with distinction and Ph.D from Panjab University, Chandigarh. Currently, she is working as Associate Professor at National Institute of Technical Teachers Training and Research, Chandigarh, India. Dr. Thakur has also worked as Visiting Scholar in Richard Russel Research Laboratory, Athens, USA. Her research interests are in the areas of AI in Power Systems, Micro Grid and Smart Grid, Embedded systems and Microcontrollers, Electrical Engineering and Information Technology in Agriculture, Quality Analysis and Detection Technology in Food Materials Sensors and Instrumentation, Power Systems, Power Quality, PLC and SCADA,. She has successfully coordinated three ARPIT courses on SWAYAM portal in the field of Smart Grid.



Dr.P. Rangababu has serving as Assistant Professor in the Department of Electronics and Communication Engineering at NIT Meghalaya from 2014. He completed his Ph.D from Hyderabad Central University in 2014, UG & PG Degrees from Andhra university in 2003 and 2005 respectively. Currently he is involved in several sponsored projects as investigator & co-investigator from several sponsored projects BRNS, DST, Meity, FIST etc. He has published over 70 in Reputed journal and conference Publications. His research interests include VLSI Design & Embedded Systems and Hardware Accelerators for Signal Processing and IoT -based Renewable energy systems, Power quality and Energy Forecasting etc.

