



**IEEE
SEFET 2026**
**SUSTAINABLE ENERGY AND
FUTURE ELECTRIC TRANSPORTATION**
ELECTRICAL ENGINEERING DEPARTMENT



**6TH IEEE
INTERNATIONAL CONFERENCE**
**VISVESVARAYA NATIONAL INSTITUTE
OF TECHNOLOGY, NAGPUR**
8TH TO 11TH JULY 2026



**Call for Papers: Special Session
Track
on**

“SS3:Resilient Self-Healing Grids & Distributed Restoration Technologies”

Session Chairs



Dr. S Ramana Kumar Joga

Assistant Professor in EEE Department
Dadi Institute of Engineering and Technology,
Anakapalle



Dr. Naveen Yalla

Assistant Professor in Electrical Engineering Department
Indian Institute of Technology (IIT-BHU)
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This track will encompass the following key topics:

1. Autonomous Fault Detection, Isolation & Service Restoration (FDIR)
Techniques for real-time disturbance identification, localized protection schemes, and rapid reconfiguration for uninterrupted power supply.
2. Multi-Agent and Distributed Control Mechanisms for Self-Healing Networks
Agent-based coordination, decentralized decision-making, swarm intelligence, cooperative restoration, and edge-controlled grid automation.
3. Power Converters for Renewable Energy Integration
4. AI-Driven Predictive Maintenance and Resilience Enhancement
Deep learning for outage forecasting, equipment health diagnostics, asset-level reliability estimation, and adaptive reinforcement strategies.
5. Hybrid AC/DC Grid Restoration and Low-Inertia Operation Management
Restoration control under inverter-dominated environments, virtual inertia provision, grid-forming converter strategies, and resilience in hybrid grids.
6. Communication-Assisted Protection & Cybersecure Restoration Frameworks
SCADA-IoT integration, resilient communication protocols, cyber-threat detection, intrusion-tolerant protection logic, and secure restoration pathways.
7. Digital Twins, Data Analytics & Real-Time Simulation for Grid Recovery
Virtual replication of power networks, scenario simulation for disaster events, digital monitoring platforms, and real-time restoration evaluation.
8. Advanced Microgrid Architectures, Control Strategies & Multi-Energy Integration.

Submit here

[https://cmt3.research.microsoft.com/SEFET2026/
Submission/Index](https://cmt3.research.microsoft.com/SEFET2026/Submission/Index)

All accepted and presented papers will be published in e-proceedings and submitted to the IEEE Xplore Digital Library, indexed by Scopus and Google Scholar.

All presented papers will also be considered for extended publication in the IEEE Transactions on Industry Applications or IEEE Industry Applications Magazine.



Please Ensure to Select Track SS3: "Resilient Self-Healing Grids & Distributed Restoration Technologies" special session track during your submission process in the CMT portal.

Contact Persons



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