

# 6TH IEEE INTERNATIONAL CONFERENCE ON SUSTAINABLE ENERGY AND FUTURE ELECTRIC TRANSPORTATION (SEFET)

**8<sup>TH</sup> - 11<sup>TH</sup> JULY 2026, VNIT NAGPUR**

**CALL FOR PAPERS IN SPECIAL SESSION ON: DIGITAL TWINS AND AI-BASED CONTROL FOR INDUSTRIAL MICROGRIDS AND ENERGY MANAGEMENT SYSTEMS**

## Organizers:

### Topics of the Session (but not limited to)

- Digital Twin Modeling, Simulation, and Validation for Industrial Microgrids.
- Digital Twin-Based Predictive Maintenance and Control for Power Converters in Industrial Microgrids.
- Physics-Informed Digital Twin Modelling of Wide Bandgap Devices.
- Digital Twin Framework for Real-Time Health Monitoring and AI-Based Control of WBG Power Electronics.
- AI-Based Optimization Control Strategies for Industrial Microgrids.
- Advanced Energy Management Systems and Operations for Industrial Microgrids.
- Grid-to-Vehicle (G2v) and/or Vehicle-to-Grid (V2G) optimization and control strategies for Industrial Microgrids

**Submission Deadline: 31<sup>st</sup> Jan 2026**

#### SUBMISSION SITE:

[HTTPS://CMT3.RESEARCH.MICROSOFT.COM/SEFET2026/SUBMISSION/INDEX](https://CMT3.RESEARCH.MICROSOFT.COM/SEFET2026/SUBMISSION/INDEX)

AFTER LOGIN, SELECT SPECIAL SESSION 6 (SS 6): DIGITAL TWINS AND AI-BASED CONTROL FOR INDUSTRIAL MICROGRIDS AND ENERGY MANAGEMENT SYSTEMS (DAIC-IMES)



#### DR. HIRAMANI SHUKLA

Assistant Professor  
Marwadi University, Rajkot  
[hiramani.shukla@marwadieducation.edu.in](mailto:hiramani.shukla@marwadieducation.edu.in)



#### DR. TAPANKUMAR TRIVEDI

Associate Professor  
Marwadi University, Rajkot  
[tapankumar.trivedi@marwadieducation.edu.in](mailto:tapankumar.trivedi@marwadieducation.edu.in)



#### DR. RAKESH MAURYA

Professor  
SVNIT Surat  
[rmaurya@eed.svnit.ac.in](mailto:rmaurya@eed.svnit.ac.in)



#### DR. SHAILENDRA KUMAR

Assistant Professor  
IIT Bhilai  
[skumaree@iitbihlai.ac.in](mailto:skumaree@iitbihlai.ac.in)

**ALL PRESENTED PAPERS WILL BE PUBLISHED AS E-PROCEEDINGS AND SUBMITTED TO IEEE XPLORER DIGITAL LIBRARY (INDEXED IN SCOPUS, GOOGLE SCHOLAR, AND OTHER MAJOR INDEXING). THEY WILL ALSO BE CONSIDERED FOR FURTHER REVIEW AND PUBLICATION IN IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS AND IEEE INDUSTRY APPLICATIONS MAGAZINE.**

For any query, please reach out us at the above-mentioned email