International Conference on
Smart Technologies for Energy, Sustainability & Industry (STESI)
July 22-23, 2026
Department of Electrical Engineering, Manipal University Jaipur

Special Session ID	SS-02
Title	AI-Driven Optimization and Fault-Tolerant Control in Smart Energy and Sustainable Industry Systems
Tentative Topics	1. AI/ML-enabled fault ride-through in wind/PV systems 2. Digital twin models for intelligent energy systems 3. Reinforcement learning for microgrid control 4. Predictive maintenance in smart industries 5. AI-based power quality improvement 6. Optimization of hybrid microgrids using deep learning 7. Intelligent battery management and SOC/ SOH estimation 8. Energy forecasting under climate uncertainty 9. Fault diagnosis using ML, deep learning, and edge AI 10. Cyber-resilience in smart grid and IoT-enabled industries
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