

# 5th IEEE International Conference on Sustainable Energy and Future Electric



Transportation  
(IEEE SeFet 2025)

09 July - 12 July, 2025  
Jaipur, Rajasthan, INDIA



## Special Session

on

### SS 6: Innovative Protection Strategies, Resilient Architectures, and Advanced Power Conversion for Next-Generation Energy Systems

#### Topics

- Innovative protection algorithms for smart and microgrid systems.
- Resilient system architectures for disaster recovery and fault-tolerant operations.
- Condition monitoring of traction motor drives in electric vehicles.
- Protection strategies for high-voltage direct current (HVDC) and flexible AC transmission systems (FACTS).
- Modular, scalable power conversion technologies for e-mobility and renewable energy integration.
- Artificial intelligence (AI) and machine learning (ML) are used for adaptive protection and fault management for energy systems.
- AI and IoT-Based fire protection systems for electric vehicle batteries.
- Optimization of converter designs for high-efficiency energy storage and retrieval.
- Integrating renewable energy sources with resilient grid systems through power electronics.
- Grid forming and grid following converters.

All presented papers will be considered for further review and publication in IEEE Transactions on Industry Applications and IEEE Industry Applications Magazine.

Paper Submission Link:

<https://cmt3.research.microsoft.com/SEFET2025/Submission/Manage>

Last Date of Submission: Jan 30, 2025

Note for submission: After login, select Special Session "SS6: Innovative Protection Strategies, Resilient Architectures, and Advanced Power Conversion for Next-Generation Energy Systems"

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