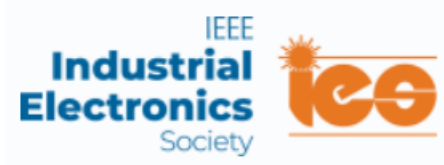


# 5th IEEE International Conference on Sustainable Energy and Future Electric Transportation

## (IEEE SeFet 2025)

09 July - 12 July, 2025

Jaipur, Rajasthan, INDIA



<https://sefet.in/>

Call For Papers | IEEE SeFet 2025 | Venue: MNIT Jaipur

Special Session Tack on

**SS 2: Smart management and fault diagnosis in EV battery system**

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

Dear Students, Faculties and Researchers,

We are pleased to invite you to submit your research papers to our Special Session "SS-02: Smart management and fault diagnosis in EV battery system," as part of the **IEEE 5th International Conference on Sustainable Energy and Future Electric Transportation (SEFET-2025)**, scheduled to be held at MNIT Jaipur, India, from July 9–12, 2025..

This special session aims to explore recent innovations in battery diagnostics and management for the Electric Vehicle applications, encompassing topics such as:

- Battery State Estimation Techniques:** Including innovations in State of Charge (SOC), State of Health (SOH), and State of Power (SOP) estimation methods to improve accuracy and reliability.
- Fault Detection and Diagnostic Mechanisms:** Covering real-time monitoring, fault-tolerant design, and predictive diagnostics to minimize downtime and maximize safety.
- Battery Safety and Thermal Management:** Examining thermal runaway detection, cooling techniques, and system safety protocols.
- Data-Driven BMS for EVs:** Leveraging AI, ML, and big data analytics to predict battery life, diagnose faults, and optimize performance.
- IoT Integration in Battery Management:** Discussing IoT-enabled communication, remote monitoring, and cloud-based BMS solutions.
- Energy Optimization and Charge Management:** Strategies for energy balancing, minimizing energy loss, and optimizing charging cycles for longer battery life.

We encourage researchers, practitioners, and professionals to contribute cutting-edge research that addresses these topics or related areas.

**Important Details:**

**Paper Submission Link:**

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

Scan here



**Last Date of Submission: Jan 30, 2025**

Please ensure to select **SS 2: Smart management and fault diagnosis in EV battery system** track during your submission process in the CMT system.

We look forward to receiving your valuable contributions and engaging with you at IEEE SeFet 2025.

### SPECIAL SESSION ORGANIZERS



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