

34th IEEE International Symposium on Industrial Electronics (ISIE 2025)

Special Session on

“Intelligent Reconfigurable Batteries”

Organized by

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Call for Papers

Theme:

With growing demands for battery electric storage systems (BESS), intelligent reconfigurable batteries are crucial for dynamically addressing varying power requirements, mitigating degradation, and enhancing energy efficiency. Unlike conventional battery packs, reconfigurable batteries can adapt dynamically to changing operating conditions. This issue invites contributions to innovations in novel battery management and control, reconfigurable battery topologies, predictive algorithms, and fault-tolerant designs and algorithms.

Topics of interest include, but are not limited to: **(Provide a list of 5-10 special areas)**

1	Advancements in Control Algorithms
2	Micro- and Makro-Topologies of Reconfigurable Batteries
3	Fault Detection and Prevention
4	Maintenance strategies
5	State Balancing Methodologies
6	Charging strategies
7	Energy storage, electric vehicles, and aircraft applications for intelligent reconfigurable batteries
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Reviewers (Provide 10-20 names with email and affiliation address)

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Submission Procedure:

All the instructions for paper submission are included in the conference website: <https://ieee-isie-2025.org/>

Deadlines:

Full paper submission:	March 31, 2025
Paper acceptance notification:	April 15, 2025
Camera-ready paper submission:	May 14, 2025

Please send this completed document to:

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