

**Call for Papers for the Special Session on**

**ADVANCED ENERGY MANAGEMENT AND CONTROL STRATEGIES FOR  
TRANSPORTATION ELECTRIFICATION**

**Organized and co-chaired by**

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**Technical Outline of the Session and Topics**

This special session focuses on the cutting-edge research, innovative technologies, and practical applications of advanced energy management and control strategies in the field of transportation electrification, to optimize energy efficiency, extending lifespan, improving driving performance, and reducing operational costs of various means of transportation, e.g. electric vehicles, electric ships and electric aircraft. The session aims to bring together researchers, engineers and industry practitioners to exchange the latest advances, share practical experience, and explore future trends in energy management and control for transportation electrification. It will cover both theoretical breakthroughs and engineering applications, providing a platform for in-depth discussion on key challenges and solutions, and promoting the industrialization and large-scale application of advanced energy management technologies.

**Topics of the session include, but are not limited to:**

- Advanced energy management strategies for electrified transportation
- Control strategies for electric transportation powertrains and energy storage systems
- Stability analysis and enhancement for electric transportation
- Fault detection and health management for electric transportation
- V2X (Vehicle-to-Everything) communication-based energy management
- Digital twin-based energy management and control for electrified Transportation
- Smart navigation and route planning integrated with energy management
- Practical applications and industrial case studies
- Next-generation battery technologies and their impact on energy management strategies

**Timeline for Authors**

All the instructions for paper submission are available on the conference website. Please visit [www.iecon2026.org](http://www.iecon2026.org) or scan the QR code for the timeline.

