



CALL FOR PAPERS

2025 International Conference on Transport
Electrification and Energy Storage
(ICTEES)



It is our pleasure to invite you to the 2025 International Conference on Transport Electrification and Energy Storage (ICTEES) at University of Leicester, UK, from 14-16 November 2025, sponsored by the IET. This conference serves as a premier global platform for thought leaders, researchers, and industry pioneers to shape the future of transport electrification and energy storage technologies.

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Keynote Speakers



Jun Liang
IEEE Fellow
Cardiff University, UK



**Ivana Kovacevic-
Badstuebner**
ETHZ, Switzerland



Thomas Wu
Guangxi University,
China

Themes and Topics

• Transport Electrification & Propulsion

Hybrid electric vehicles (HEVs), plug-in hybrid electric vehicles (PHEVs), electric vehicles (EVs), and range-extended EVs; Electrification of heavy-duty, off-road, and defense vehicles; Powertrain electrification for trains, rail, marine, aerospace, and space applications; Advanced vehicular power electronics, traction inverters, and motor drives; AI-driven control of propulsion and vehicle energy management; High-efficiency traction motors and their manufacturing techniques dings and smart grids; Component reliability, thermal management, electronics packaging and integration for power electronics.

• Energy Storage Technologies & Systems

Electrochemical, chemical, mechanical, electrical, and thermal energy storage technologies; Battery management systems (BMS), state-of-health (SoH), and state-of-charge (SoC) optimization; Next-generation batteries: lithium-ion, solid-state, sodium-ion, and hybrid chemistries; Fuel cells and hybrid storage applications in transportation; Energy storage for grid-scale applications, off-grid systems, and portable electronics; Multi-purpose storage integration with buildings and smart grids; Recycling, reuse, and second-life applications of batteries; Digital manufacturing and smart production of EV components and systems.

• Charging Infrastructure, Grid Integration & Connectivity

On-board and off-board charging, fast charging, and opportunity charging; Inductive and dynamic wireless charging in roadways; Vehicle-to-grid (V2G), vehicle-to-home (V2H), and vehicle-to-infrastructure (V2I) technologies; Smart charging, demand response, and grid flexibility solutions; Cybersecurity and data-driven energy management in transport and flexible power plants; Large-scale distributed storage management and energy dispatch Advanced manufacturing technologies for batteries, power electronics, and electric drivetrains.

• Sustainability, Manufacturing & Policy Frameworks

Environmental impact assessment and emissions reduction strategies; Standardization of transport electrification and grid interface protocols; Source-to-wheel (STW) energy analysis and life cycle assessment; Government policies, incentives, and market trends in EV adoption; Interoperability of energy storage with renewables and flexible power plants Lessons learned from real-world EV and grid integration pilot projects; Supply chain challenges and opportunities for sustainable electrification.

Important Dates

Abstract Submission Deadline: 31 Aug. 2025
Manuscript Submission Deadline: 30 Sep. 2025
Final Paper Submission: 31 Oct. 2025
Early-Registration Deadline: 30 Sep. 2025
Registration Deadline: 31 Oct. 2025

Submission

<https://paper.ictees.org/login/ICTEES.html>



Publication Information

All presented papers will be included in IET Conference Proceedings, and indexed by EI Compendex, Scopus etc.