



# CALL FOR PAPERS

2026 International Conference on Transport  
Electrification and Energy Storage  
(ICTEES)



UNIVERSITY OF  
LEICESTER



The Institution of  
Engineering and Technology



Cardiff University, 20-22 August

You are cordially invited to attend the **2026 International Conference on Transport Electrification and Energy Storage (ICTEES 2026)** at Cardiff University, UK, on 20-22 August 2026. The 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.

## Honorary Chairs

Phil Mawby (IET Fellow, University of Warwick, UK)

Volker Pickert (Newcastle University, UK)

## General Conference Chairs

Jun Liang (IEEE Fellow, Cardiff University, UK)

Geng Qiao (Global Energy Interconnection Research Institute Europe GmbH, Germany)

## Conference Co-Chairs

Bing Ji (University of Leicester, UK)

Xiangping Chen (Guizhou University, China)

Liana Cipcigan (Cardiff University, UK)

## Technical Program Chairs

Wenping Cao (IET Fellow, Anhui University, China)

Paul Lefley (Principle Engineer, Collins Aerospace, UK)

Xuebao Li (North China Electric Power University, China)

Andreas Demosthenous (IEEE Section Vice Chair, UCL, UK)

## Finance Chair

Cungang Hu (Anhui University, China)

## Organizing Chairs

Julius M. Mwabora (University in Nairobi, Kenya)

Sheng Wang (University of Glasgow, UK)

Xiangyang Xia (Changsha University of Science & Technology, China)

Paulo Lopes (IET China Head)

Tianhong Pan (Anhui University, China)

## Publication Chairs

Chuanyue Li (South China University Of Technology, China)

Mohammad Yazdani-Asrami (University of Glasgow, UK)

Yawei Hu (Anhui University, China)

## Tutorial Chairs

Jinlei Chen (Cardiff University, UK)

Xing Qi (Anhui University, China)

## Technical Committee Members

Krishna Shenai (IEEE Fellow, University of Chicago, USA)

Maurizio Albano (Cardiff University, UK)

Lassi Aarniovuori (Lappeenranta – Lahti University of Technology, Finland)

Qinwei He (Global Energy Interconnection Research Institute Europe GmbH, Germany)

Dmitry Svehkarenko (ABB, Sweden)

Zhongbei Tian (University of Birmingham, UK)

Haimeng Wu (Northumbria University, UK)

Teng Long (Cambridge University, UK)

Zhengyu Lin (Loughborough University, UK)

Huai Wang (Aalborg University, Denmark)

Kun Tan (Anhui University, China)

Shu Yang (University of Science and Technology of China, China)

Fengyu Zhang (University of Nottingham, UK)

Bashar Zahawi (Khalifa University, United Arab Emirates)

Pericle Zanchetta (University of Pavia, Italy)

Stoyan Stoyanov (University of Greenwich, UK)

Morvillier Raphaël (Alternative Energies and Atomic Energy Commission, France)

Janine Ebersberger (Leibniz University Hannover, Germany)

Andrii Chub (Tallinn University of Technology, Estonia)

Tetina Serdiuk (Ukrainian State University of Science and Technologies, Ukraine)

Yanni Zhong (Siemens, UK)

Ravita Lamba (Indian Institute of Technology Roorkee, India)

Qingsong Wang (École de technologie supérieure (ÉTS), Canada)

Mohamed Dahidah (Newcastle University, UK)

Vanja Ambrozic (University of Ljubljana, Slovenia)

Binxin Zhu (China Three George University, China)

Yang Xiao (University of Leicester, UK)

## Keynote Speakers

**Dimosthenis Peftitsis**  
Eindhoven University of  
Technology, Netherlands

**Xiaolin Ding**  
National Grid, UK

## 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; 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.

## Special Sessions

**Special Session 1** - Digitalization and Innovation in Energy Storage and Power Infrastructure

### Session Chairs:

Qinwei He (Global Energy Interconnection Research Institute Europe GmbH, Germany)

Xiaopeng Yuan (RWTH Aachen University, Germany)

**Special Session 2** - Advanced Protection and Solid-State Circuit Breakers for Next-Generation Energy Storage Systems

### Session Chairs:

Yu Xiao (Xi'an Jiaotong University, China)

Zhong Chen (The Hong Kong Polytechnic University)

## Important Dates

Abstract Submission Deadline: 31 May 2026

Manuscript Submission Deadline: 17 Jul. 2026

Final Paper Submission: 31 Jul. 2026

Early-Registration Deadline: 14 Jul. 2026

Registration Deadline: 20 Aug. 2026

## 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.