EVS34

Call for Papers

With the theme of "***Towards Intelligent E-Mobility***", the 34th International Electric Vehicle Symposium & Exhibition (EVS34), hosted by the China Electrotechnical Society (CES) and the Electric Vehicle Association of Asia-Pacific (EVAAP), will be held in Nanjing, Jiangsu Province, China in June, 2021. The sponsor of EVS34 is the World Electric Vehicle Association (WEVA), the partners are the Electric Drive Transportation Association (EDTA), and the European Association for Electromobility (AVERE). The co-organizers are the Nanjing Municipal Government and the Lishui District of Nanjing.

The EVS has been globally the most influential event of electric vehicles, as it always brings together relevant technological frontiers, displays the most updated new technologies, and promotes the newest EV products. For EVS34, a wide range of topics for the symposium is invited, hopefully with emphasis on INTELLINGENT E-MOBILITY. The topics will include, but not limited to, technical advances and most updated research findings in hybrid electric vehicles, pure electric vehicles, fuel cell vehicles and related, infrastructure construction and service research, marketing and policy support research, etc.

Welcome to submit papers to EVS34.

Topics

A. Electric vehicle and transportation system

- Passenger cars, including pure electric, hybrid, plug-in hybrid and fuel cells
- Commercial vehicles, including pure electric, hybrid, plug-in hybrid and fuel cells
- Small cars, including electric two- and three-wheeled cars

- Public transportation, including buses and railways
- Shared and autonomous transportation applications
- Other vehicle technologies and applications, such as flying cars
- Intelligent Transportation System

B. Power battery and fuel cell

- High-performance batteries, capacitors and other energy storage components and energy management systems
- Fuel cell and its system

C. Electric drive technology

- Motor design for EV application, multi-physics simulation and digital twin technology
- Novel EV motors topology for EV application
- Power electronic device, packaging and drive technology, including Si-based IGBTs and SiC MOSFETs, etc.
- High temperature passive devices and their packaging
- Power electronics topology and control for EV application
- Intelligent motor control and health status management
- Electromagnetic compatibility technology
- Test methods and test techniques
- Powertrain integration

D. Charging(Battery swapping)/Hydrogen fueling infrastructure

- Smart charging and V2G
- Hydrogen fueling infrastructure
- Standardization and interoperability of charging/hydrogen fueling
- Wireless charging infrastructure (static and dynamic)
- Case study on infrastructure deployment
- Fees, standardization and services

- Battery charging (swapping) infrastructure
- Smart grid, micro-grid, charging network and smart home

E. Connection of power grid, power supply and vehicle

- Demand management
- Energy storage utilization of EV battery pack
- Grid implications of DC fast charging and ultra-high speed charging
- Advancements in V2G, V2X and connectivity
- Intelligent connected vehicles
- Utilities project deployment case study
- Public policies and strategies for electric vehicle charging

F. Market

- Domestic and global market development strategy
- Consumer needs, education, training, demonstration and motivation analysis
- City market case and demonstration
- Smart city

G. Policy

- National and international electric vehicle development policies
- National initiatives
- Local and regional partnerships
- Case study of government project deployment
- Standards and regulations

H. Environmental, Energy and Social Assessment

- Environmental benefits of electric vehicles
- Supply chain analysis: materials, manufacturing, recycling and reuse
- Energy security
- Analysis of the social impact of electric vehicles
- Hydrogen and sustainable energy
- Safety

I. Emerging Technology

- Smart connected EV outlook
- Integration of transportation network, energy network, information network and humanities network

Symposium Language

English is the official language for all the Symposium documents, abstracts, full papers and on-site communication.

Abstract Review and Acceptance Notification

All abstracts will be peer-reviewed as organized by the Technical Committee. Acceptance notice will be issued before April 15, 2021. The notice will be sent only to the registered author's mailbox.

Full-Paper Submission

Authors of accepted abstracts should submit the final paper on or before May 15, 2021.

Registration

All EVS34 participants including authors and co-authors, but excluding invited guests and organizer’s staff, need to register and pay the registration fees. All registration and fee payment should be completed on or before June 10, 2021.

Publishing

All accepted papers received will be assembled into an EVS34 e-collections. All authors who submit abstracts are deemed to have agreed and given EVS34 permission to publish his/her submitted papers in the EVS34 Proceedings. Outstanding papers selected and approved by the panel of experts of EVS34 will be recommended to be published in SCI journals including 《Electrical Energy Systems》《Energies》《IEEE Transactions on Power Electronics》《IEEE Transactions on Transportation

Electrification》, EI journals including《WEVA Journal》《Transactions of China Electrotechnical Society》《Proceedings of the CSEE》《Power System Technology》《Automation of Electric Power Systems》《Electric Machines and Control》, and other journals including 《eTransportation》《Journal of Automotive Safety and Energy》《Journal of Chongqing University of Technology》.

Importantdates

- Deadline for Abstract Submission 28 Feb 2021
- Deadline for Abstract Acceptance Notification 15 Apr 2021
- Deadline for Full Paper Submission 15 May 2021
- Accepted Abstract Registration and Payment Close 10 June 2021

Attachment: abstract template, full Paper template