

Call for Paper



# "Toward Carbon Neutral Transportation by Electrification"



# EVTeC 2023

THE 6TH INTERNATIONAL ELECTRIC VEHICLE TECHNOLOGY CONFERENCE

MAY 22-24 2023

PACIFICO YOKOHAMA, JAPAN (Hybrid: In-Person and Virtual)

Organized by Society of Automotive Engineers of Japan, Inc. (JSAE)



## Important Dates

Deadline for Extended Summary: 28 October 2022

Notification of Acceptance: 27 January 2023

Deadline for Final Manuscript: 24 March 2023

Deadline for Presenter's Registration: 24 March 2023

## Extended Summary Submission

Authors intending to present a paper at EVTeC 2023 are invited to submit an extended summary. The extended summary should be 2 - 4 pages of A4 size (including figures) and should clearly reflect the contents of the paper.

<https://www.evtec.jp/2023>



## Introduction

### "Toward Carbon Neutral Transportation by Electrification"

Organized by JSAE, most highly valued Japanese academic society of automotive engineers in the world, EVTeC is a conference that focuses on BEVs, HEVs, FCEVs, PHEVs and various other related technologies. The first EVTeC was held in May 2011 with great success. Despite being held immediately after the Great East Japan Earthquake, it featured 66 presented papers and was attended by 230 participants. The second EVTeC was successfully held in May 2014, featuring 90 papers and 264 participants. The third EVTeC in May 2016, was also a success with 101 papers and 293 participants. The fourth was held jointly with EVS organized by JARI as EVS 31 & EVTeC in October 2018 in Kobe, with the scale expanding to 317 papers and 1160 participants in the symposium. After this joint EVS, the fifth EVTeC in May 2021 was held independently online, and attracted 90 papers and 250 participants, even under the circumstances of the COVID-19 pandemic.

EVTeC 2023 will be held at Pacifico Yokohama, aimed at a face-to-face conference alongside the JSAE Annual Spring Congress including a 100,000 person-scale exhibition. Participation in the Spring Congress and exhibition is free of charge for EVTeC participants, and these events provide an excellent opportunity to experience the front line of activities in Japan firsthand.

Countries around the world are pinning much hope on the electrification of vehicles and putting much effort to enhance the related technologies, toward "carbon neutral transportation" as an effective means and a strong policy to cope with global warming problems. As part of these initiatives, along with innovative advances in batteries and other component technologies, the evolution towards vehicle traction electrification has been steadily promoted.

In recent years, in addition to partnerships with electric power systems, we have also started exploring the potential creation of value and provision of services based on new perspectives such as CASE (connected, autonomous, shared, and electric) on the back of advances in information technology.

We trust that EVTeC 2023 will fulfill its promise as a prestigious forum for international discussion on the topics of new mobility contributing to carbon neutrality and smart society.

We are looking forward to seeing you in Yokohama in May 2023!

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## Conference Topics (tentative)

### Vehicle & Transportation Systems

A-1 Battery Electric Vehicles

A-2 Plug-in Hybrid Electric Vehicles

A-3 Hybrid Electric Vehicles

A-4 Fuel Cell Electric Vehicles

A-5 Heavy Duty Vehicles & Buses

A-6 Light Vehicles & Personal Mobility

A-7 Two - & Three -Wheelers

A-8 Welfare & Senior Vehicles

A-9 Off-Road & Industrial Vehicles

A-10 Railway Vehicles, Electric Ships, Airplanes and Flying Vehicles/Objects

### Connected and Autonomous Technologies

B-1 AI/Deep-learning

B-2 Autonomous Technologies

B-3 Connected Technologies

B-4 Intelligent Transportation Systems

B-5 Sensing, Driver Monitoring and ADAS

B-6 Cyber Security

### Infrastructure

C-1 V2H & V2G Energy Management

C-2 Energy Supply & Charging Infrastructure

C-3 Hydrogen Fueling Infrastructure

C-4 Sustainable Energy & Energy Security

C-5 Environmental & Social Impact

C-6 Recycle, Reuse & Life Cycle Analysis

### Public Policy & Promotion

D-1 International Networking

D-2 Public Policy & Promotion

D-3 Standardization

### Energy Supply & Storage Systems

E-1 Batteries

E-2 Capacitors

E-3 Other Energy Storage Systems

E-4 Fuel Cells & Systems

E-5 AC&DC Charging Systems

### Propulsion Systems & Components

F-1 Drive & Propulsion Systems

F-2 Electric Motor Drive

F-3 Electric Machine

F-4 E-Axle/E-Platform

F-5 Thermal and Cooling Management of Drive Systems

F-6 NV Characteristics of Drive Systems

F-7 Auxiliary Components & Sensors

F-8 Vehicle Motion & Stability Control

### Power Electronics Components

G-1 Power Electronics Subsystems

G-2 Power Semiconductor Devices & Highly Integrated Modules

G-3 Wide Band Gap Devices & Related Issues

G-4 Packaging, Cooling & Heat Transfer

G-5 Magnetics, Capacitors, Bus Bar & 3D Integrations

G-6 Sensors for Motors & Converters

G-7 Harnesses, Connectors & Protection/Distribution Devices

### Wireless Power Transfer

H-1 Static Wireless Power Transfer

H-2 Dynamic Wireless Power Transfer

H-3 Bidirectional Wireless Power Transfer

H-4 Wireless High Power Transfer

H-5 Electromagnetic Compatibility

H-6 Health and Safety Considerations

H-7 AGV and Other Applications

### Other Related Topics

I-1 Modelling & Simulation

I-2 Measuring Methods

## Contact

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