

## Introduction

“Electrification Creates the Future”

Organized by the JSAE, the leading academic society of automotive engineers in Japan, EVTeC is a conference that focuses on EVs, HEVs, FCVs, PHVs and various other related technologies. The first EVTeC was held in May 2011 with great success. Despite being held just after the Great East Japan Earthquake, it featured the presentation of 66 papers and gathered 230 participants. The second EVTeC was successfully held in May 2014, featuring 90 papers and 264 participants.

EVTeC 2016 will be held at Pacifico Yokohama, alongside the JSAE Annual Spring Congress. More than 90,000 people are expected to visit the exhibition. Participation in the Spring Congress and exhibition is free of charge for EVTeC participants, and these events provide an excellent opportunity to see the forefront of activities being carried out in Japan.

Hybrid electric vehicles have become common, and electric vehicles are already on sale, with mass production and global sales of EVs starting several years ago. Recently, wireless power transfer technology is being introduced in the EV field. International standardization is also the subject of proactive proposals and lively discussions. As a step toward achieving a low carbon society, we need to create a forum for vehicle researchers and engineers from inside and outside Japan to pool their collective strengths and share their knowledge.

APE is a European international congress founded and organized by the SIA (the French Society of Automotive Engineers). The APE congress has been held six times since 2006 as a unique event dedicated to Automotive Power Electronics. Members from the entire automotive supply chain, the power industry, and research institutes can meet and exchange technological information. They focus on on-board systems and components that are mounted not only in EVs, HEVs and FCVs, but also in conventional vehicles. Furthermore, 48V systems have been raised as a hot topic. The APE congress provides a platform to share trends, challenges, innovations and solutions.

APE Japan is organized by the JSAE as a sister conference to the APE congress, with the first APE Japan planned to be held in 2014. Based on the similarities and common points between EVTeC and APE Japan, we decided to combine these two conferences into a single new international conference. The joint EVTeC 2014 and APE Japan 2014 was a success. In order to enhance this platform for sharing information and fostering discussion on trends in electricity in the automotive industry, we decided to hold EVTeC 2016 & APE Japan 2016 in Yokohama.

We are really looking forward to seeing you in Yokohama in May 2016!

## Important Dates

Deadline for Abstract: 15 October, 2015

Notification of Acceptance: 31 January, 2016

Deadline for Final Manuscript: 29 February, 2016

### Official Language for Paper & Presentation

The official language of the Conference is English.

### Contact

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### Special Programmes

- Plenary Sessions
- Standardization Workshops

### Website

<http://www.evtec.jp/>



# 3rd International Electric Vehicle Technology & Automotive Power Electronics Japan Conference 2016 Call for Papers

# EVTeC & APE Japan

## 2016

“Electrification  
Creates the Future”

25-27 May 2016,  
Annex Hall,  
Pacifico Yokohama, Japan



### Organized by

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

### Special Sponsors

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Japan Automobile Research Institute (JARI) –(Plan)  
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The Japanese Society for AI (JSAI)  
The Electrochemical Society of Japan (ECSJ)  
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The Institute of Electronics, Information and Communication Engineers (IEICE)  
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Japan Automobile Manufacturers Association (JAMA)  
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Electric Vehicle Power Supply System Association (EVPOSSA)  
The Federation of Electric Power Companies of Japan (FEPC)  
Japan Electronics and Information Technology Industries Association (JEITA)  
Battery Association of Japan (BAJ)  
Japan Electrical Wiring System Industries Association (JEWA)  
International Federation of Automotive Engineering Societies (FISITA)

## Organization

### International Advisory Committee

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## Conference Topics

### A Vehicles & Transportation Systems

A-1 Electric Vehicles  
A-2 Hybrid Electric Vehicles & Plug-in Hybrid Vehicles  
A-3 Fuel Cell Vehicles  
A-4 Light Vehicles & Personal Mobility  
A-5 Two- & Three-Wheelers  
A-6 Heavy Duty Vehicles & Buses  
A-7 Welfare & Senior Vehicles  
A-8 Off-Road & Industrial Vehicles  
A-9 Railway Vehicles

### B Energy Supply & Storage Systems

B-1 Batteries  
B-2 Battery Management System  
B-3 Super Capacitors  
B-4 Superconducting Magnetic Energy Storage  
B-5 Flywheels  
B-6 Fuel Cell Systems  
B-7 AC&DC Charging System  
B-8 Idling Reduction System  
B-9 Electro-Magnetic Compatibility

### C Propulsion Systems & Components

C-1 Drive & Propulsion Systems  
C-2 Electric Motors & Control Technologies  
C-3 E-motors/Generators & their Integration  
C-4 Auxiliary Components & Sensors  
C-5 Vehicle Motion & Stability Control  
C-6 Components for Transportation System  
C-7 Superconductivity Energy Transfer

### D Power Electronics Components

D-1 Power Semiconductor Devices & Highly Integrated Modules  
D-2 Wide Band Gap Devices & Related Issues  
D-3 Packaging, Cooling, & Heat Transfer  
D-4 Magnetics, Capacitors, Bus Bar, & 3D Integrations  
D-5 Sensors for Motors & Converters  
D-6 Intelligent Motors & Actuators  
D-7 Harnesses, Connectors, & Protection/Distribution Devices

### E Wireless Power Transfer

E-1 Stationary Wireless Power Transfer  
E-2 Dynamic Wireless Power Transfer  
E-3 High Power Transfer  
E-4 Electromagnetic Compatibility  
E-5 Health and Safety Considerations

### F Infrastructure

F-1 V2H & V2G  
F-2 Energy Supply & Infrastructure  
F-3 Hydrogen & Sustainable Energy  
F-4 Intelligent Transportation System for EVs  
F-5 Environmental Impact  
F-6 Recycle & Life Cycle Analysis

### G Other Related Topics

G-1 Modeling & Simulation  
G-2 International Networking  
G-3 Measuring Methods & Equipments  
G-4 Public Policy & Promotion

## Abstract Submission

Authors intending to present a paper at EVTeC 2016 & APE Japan 2016 are invited to submit an extended abstract in English with a length of approximately 1000 words. The extended abstract should not exceed 2 pages of A4 size (including figures) and should clearly reflect the contents of the paper. The extended abstract must be accompanied by the following information:

1. Title of paper
2. Name of author(s)
3. Affiliation(s)
4. Conference Topics (up to 3, use the list above)
5. Abstract (approx. 1000 words, including figures)
6. Corresponding Author
  - Name
  - Affiliation
  - Complete mailing address
  - E-mail address
  - Telephone number/Facsimile number

The final manuscript should not exceed 7 pages of A4 size and should be submitted through the following website:

<http://www.evtec.jp/>