



May 12-13, 2026 | Bamberg, Germany

International Conference 2026 | Call for Papers

electrical + electronic systems in hybrid & electric vehicles
electrical energy management



Submit your abstract until: October 31st, 2025

Unique synthesis from industry and science!

The **eehe Conference** focuses on the most important questions currently discussed in the area of electrical and electronic systems and offers the opportunity to get in touch with OEMs and 1st and 2nd Tiers from the automotive industry. The meeting of industry and academia provides plenty of space for discussion of technical issues and exchange of ideas. It is an excellent platform for presenting the latest research and technical implementations from industry.

Main Topics

Future E/E Architectures for passenger cars, heavy duty & other Vehicles

- E/E architectures, topologies and systems for
 - Hybrid/electric and hydrogen/fuel cell vehicles
 - Reliable power supply systems for automated driving and X-by-Wire
 - Domain, zonal and centralized architectures
- Electrical charging systems and vehicle-to-x solutions
- High voltage safety & standards incl. EMC
- Future voltage levels (48 V/400 V/800 V and beyond)
- Interoperability and EMC challenges

Energy management in future E/E architectures

- Electrical energy management and operating strategies
 - Control strategies for improved efficiency
 - Diagnostics and safety
 - Connectivity, big data, cloud computing and cyber security
- Battery management systems & algorithms
- Energy management for vehicle-to-x (grid, home, device)

Components for future E/E architectures

- Components for energy storage, power distribution and conversion
 - Batteries, converters, chargers and inverters
 - Semiconductors and passive components
 - Wiring harnesses and connectors
 - Integration
- New technologies and materials for power electronics and the requirements for qualification, reliability and robustness

Test and validation for hybrid and electric vehicles

- New test methods and tools for components, systems and vehicles
- Innovations for simulation and virtual development
- Software validation with non-deterministic self-learning and machine-learning algorithms

Focus topics for 2026

- Standardization for future charging systems and its influence on vehicle systems
- Comprehensive BEV / FCEV solutions and their impact on energy and low voltage architectures
- Challenges of replacing lead-acid starter batteries
- Fuel cell vehicle systems:
 - Technical aspects, technologies and components
- High voltage and 48V components and systems
- Modelling und Simulation für Hybrid and Electric Vehicles
- Ultra fast Charging Technologies and Concepts (Charging beyond 500 kw)
- Innovative Charging Technologies for convenience @high temperature and @higher SOC
- Power supply and distribution concepts for fault-tolerant systems
- Challenges in materials for electric vehicles

Every presentation (25 minutes) is followed by a 5 minute Q & A session. The conference language will be English. **Papers and slides should also be provided in English, please!** Additionally, posters will be presented in a poster pitch and exhibition.

Deadline for abstract submission: October 31st, 2025

- Title/headline in English and German
- Speaker/author and co-authors:
 - name, address, telephone and e-mail address
- Abstract in English, **conference language will be English** (an extended abstract of about 2 pages with a plot, diagram or chart would be appreciated)
- Classification into main topics



Please upload your paper on
www.eehe.de/en/call-for-papers
(Upload will be open starting September 1st, 2025!)

For Researchers and Scientists

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Milestones

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October 31st, 2025

Deadline for
abstract submission

January 16th, 2026

Decision of Acceptance

April 17th, 2026

Submission
of final presentation

May 12-13, 2026 | Bamberg

Conference Venue

Welcome Kongresshotel Bamberg
Mußstraße 7 · 96047 Bamberg
Germany

Conference chairs

The chairmen of the international conference **eehe 2026** are:



Dr.-Ing. Carsten Hoff
dSPACE GmbH



Dipl.-Inf., Dipl.-Ing. (BA) Thomas Weber
Mercedes-Benz Group AG

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Conference Fee

1.585.- € (regular) | 545.- € (Speaker/poster author)



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