



CALL FOR PAPERS

Electric & Electronic Systems in Hybrid and Electric Vehicles and Electrical Energy Management

June 15-16, 2021 in Aachen /Germany
www.eehe.de



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SUBMISSION OF ABSTRACTS FOR PAPERS OR POSTERS: OCTOBER 31, 2020

- › **Headline in english, abstract in german or english, based on template at www.eehe.de**
- › **An extended abstract of about 2 pages with 1 plot, diagram or chart is appreciated**
- › **Author(s): academic degree, last name, first name, address, telephone and email address!**

Please upload your paper on the website www.eehe.de !

Papers for the Conference Proceedings are strictly mandatory. Exceptions can only be approved by the Advisory Board.



Organizer: Haus der Technik e.V.
Hollestraße 1, 45127 Essen/Germany
www.hdt.de

DEADLINE: OCTOBER 31, 2020

Every contribution is scheduled with 20 minutes for the presentation and 10 minutes for questions and discussion. The conference language is German or English, simultaneous translation will be available. **Papers and slides only in English!**

Additionally, posters will be presented in a poster exhibition.

VENUE

Parkhotel Quellenhof Aachen
Monheimsallee 52
52062 Aachen

MAIN TOPICS

› E/E Architectures for Hybrid and Electric Vehicles

- E/E Architectures, Topologies and Systems at High Voltage and 48 Volt
- Electric Charging Systems
- High Voltage Safety and Standards
- Commercial Vehicles

› Energy Management and Design Methods

- Electrical Energy Management and Operating Strategies
- Battery Management, Diagnostics and Safety and their Impact on Reliable Power Supplies
- Reliable Power Supply Systems for Automated Driving Features and their Diagnosis and Fault Handling
- Power Supply Concepts for Domain (Zonal) and centralized Architectures
- Low Voltage Energy Storage
- Using Connectivity, Big Data, Cloud Computing and Cyber Security

› Components for High Voltage and 48 Volt

- Components for Electrification
- Semiconductors and Passive Components
- New Technologies and Materials for Power Electronics and the Requirements for Qualification, Reliability and Robustness
- Wiring Harnesses and Connectors

CHAIRMEN

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FOCUS TOPICS

› 48 Volt Actuators and Mechatronic Systems

› Fuel Cell Vehicle Systems: technical Aspects, Technologies and Components

› Multilevel Powernet: Voltage Classes A, B1, B2 for High Power Systems; Power Supply for High Power Loads; Synergies and Redundancies

› Architectures and Integration: Methods for Evaluation (e.g. cost versus function); Management of Variants; Reuse and Commuality between Hybrids and BEV;

› Fusing and Power Distribution Concepts for new Architectures and ADAS

› Complete Integration of Power Electronics in the Subsystems (e.g. inverter electronics in the propulsion subsystem) and Impact on Testing

› Trends in Standardization, Regulation and Legislation

EXHIBITION

The conference zone combines the lecture halls and an exhibition space which includes the catering facilities as well.

The exhibition area is suitable for the presentation of large exhibits, and even complete automobiles can easily be displayed.

For further information please visit our website: www.eehe.de

FURTHER MILESTONES

Confirmation to the authors: January 31, 2021

Deadline for the final papers (in English): April 15, 2021

Submission of the final presentations: June 10, 2021

**Please send your abstract
at latest by October 31, 2020**
via upload on www.eehe.de