



CALL FOR PAPERS

Digitalisation & Artificial Intelligence in the Power-
train | Drive Concepts | Transmission/Drive Units |
E-Motor | Inverter | Battery, Fuel Cell, Hydrogen |
Thermal Management



INTERNATIONAL INDUSTRY GATHERING OF THE POWERTRAIN COMMUNITY

Key Topics

- Market/Customer/Legislation/Environment/Sustainability
- Digitalisation & Artificial Intelligence in the Powertrain
- Drive Concepts
- Transmission/Drive Units
- E-Motor
- Inverter
- Battery, Fuel Cell, Hydrogen
- Charging Systems
- Thermal Management
- Simulation, Test and Validation

Submit your
abstract by
October 9, 2026



Submit now:
www.dritev.com

Dear experts,

Following the highly successful Dritev 2026 in Baden-Baden, we are already looking ahead together. In 2027, we once again aim to address and discuss the key developments shaping our industry – topics that influence our daily work and will define the future of powertrain technology.

The transformation of powertrain technology has entered a decisive phase. While electrification, digitalization, and sustainability continue to drive the development of modern mobility solutions, companies and research institutions are simultaneously facing significant economic and technological challenges. Shifting global competition, increasing cost pressure, new regulatory requirements, and the need for resilient supply chains demand innovative solutions that are not only technologically advanced but also economically viable.

The requirements for future powertrain systems are diverse: energy efficiency, resource conservation, performance, comfort, and cost-effectiveness must all be considered equally. At the same time, technological diversity remains a key success factor. In addition to battery electric vehicles (BEVs) and range-extended electric vehicles (REEVs), hybrid powertrains (HEV/PHEV), fuel cell electric vehicles (FCEVs), as well as alternative fuels and synthetic energy carriers, will continue to play an important role. The key challenge is to develop optimal solutions for a wide range of applications and global markets.

At the same time, digitalization is fundamentally transforming the entire powertrain value chain. Artificial intelligence, data-driven development methods, virtual validation, and software-defined functionalities are opening up new opportunities in the development, production, and operation of modern powertrain systems.

As an international meeting place for the industry, Dritev 2027 provides a platform for professional exchange on the latest developments across the entire powertrain value chain. The conference will focus on current innovations in electric motors, power electronics, batteries, fuel cells, charging infrastructure, and powertrain system integration, as well as advances in digitalization, artificial intelligence, and sustainable technologies.

We warmly invite you to actively shape the future of powertrain technology. Submit your contributions on technological innovations, scientific findings, and practical applications, and present your solutions to an international audience of experts from industry, research, and academia.

We look forward to receiving your submission and to shaping the mobility of tomorrow together with you.

**On behalf of the Programme Committee,
Your Congress Chair**
Dipl.-Ing. Thomas Pfund

Program Committee



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GENERAL INFORMATION

Call for papers

Are you an expert in one of the fields listed under topics? If so, we ask you to contribute actively to the success of this congress with a lecture.

Please submit an abstract not exceeding one A4 page by October 9, 2026. You can register with your contribution online at www.dritev.com.

The abstract must include (one A4 page maximum):

- The informative title of your contribution
- Details of the speaker and the co-authors (names and contact details)
- A summary with specific information
- A statement as to the degree of innovation
- The assignment to which key topic (in the Word file as well, please)
- Indication of publications on the topic
- **The precise title and key points of your presentation for publication in the program brochure (obligatory)**



For more information please visit the
Call for Papers page at
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Deadlines

Submission deadline for abstracts:

October 9, 2026

Notification to the submitters:

mid of December 2026

Submission deadline for manuscripts:

April 1, 2027

General information

- The duration of lectures will be approximately 20 minutes followed by a discussion of about 5 minutes.
- The authors of the accepted papers agree to provide a detailed manuscript (no more than 10-12 pages) by April 1, 2027.
- On the basis of the abstract, the Programme Committee will decide on the acceptance and placement of a presentation in the Dritev conference programme, and, where applicable, in the parallel programme of the 'Powertrain Solutions for Commercial Vehicles' conference.
- All authors will be notified of the outcome in writing and will receive information on the next steps.
- Speakers (one author per lecture) will participate in the congress free of charge.

Best Presentation Award

Once again in 2027 the best young lecturer (up to and including 33 years) will be honored with the Best Presentation Award. Speakers, who would like to participate in this contest, are requested to state their date of birth with their contact details.

Partners

VDI Society Product and Process Design (GPP)

VDI Society Vehicle and Transport Technologies (FVT)

Key Topics

THE ELECTRIFIED POWERTRAIN | SYSTEMS | COMPONENTS | METHODS

We ask you to submit your paper on the following range of topics

1. Market/Customer/Legislation/Environment/ Sustainability

- 1.1 Mobility concepts, Eco-Systems
- 1.2 Regional strategies and legislation
- 1.3 Geopolitical constraints
- 1.4 Cost optimisation (TCO)
- 1.5 Voice of customer
- 1.6 Circular economy, sustainability and ESG compliance
- 1.7 CO₂ emissions reduction, LCA
- 1.8 Resilient supply chains, material availability

2. Digitalisation & artificial intelligence in the powertrain

- 2.1 AI in the product development process
- 2.2 AI in the product

3. Drive Concepts

- 3.1 Drivetrain Topologies (ICE, xEV)
- 3.2 Integration and optimization of electrified powertrains
- 3.3 Efficiency rate and system performance
- 3.4 EE-architectures and vehicle power supply (LV and HV)
- 3.5 NVH & acoustics

4. Transmission/Drive units

- 4.1 Architectures/products
- 4.2 Axle drives, all-wheel system, torque vectoring and disconnect
- 4.3 Transmission components (clutches, gears, synchronizations)
- 4.4 Power density
- 4.5 Cooling, lubrication, tribology
- 4.6 NVH, active and passive vibration damping
- 4.7 Functional and physical integration

5. E-Motor

- 5.1 Technologies (PSM, ASM, FSM, AFM)
- 5.2 Dimensioning, calculation, simulation
- 5.3 Power density, efficiency rate, NVH
- 5.4 Design features – cooling concept, insulation system
- 5.5 System optimization: Inverter – e-motor

6. Inverter

- 6.1 Inverter architectures
- 6.2 Dimensioning and simulation
- 6.3 Power switches and their impact on power density, efficiency and costs
- 6.4 Functional and physical integration
- 6.5 Housing, cooling, sealing concepts and crash performance

7. Batterie, Fuel Cell, Hydrogen

- 7.1 Structure and design of storage system
- 7.2 Vehicle integration and crash concepts
- 7.3 Cell technology, contacting systems, cell interconnections
- 7.4 Cooling & conditioning
- 7.5 Intelligent storage management
- 7.6 Thermal propagation

8. Charging Systems

- 8.1 On-Board charging system: Architecture, executions, vehicle integration
- 8.2 Charging infrastructure
- 8.3 Bidirectional charging system
- 8.4 Charging capacity and efficiency

9. Thermal Management

- 9.1 Thermal management architecture
- 9.2 Dimensioning and simulation architectures
- 9.3 Driving range optimization
- 9.4 Functional and physical integration
- 9.5 Operating strategies
- 9.6 Single components
- 9.7 Air-conditioning compressors

10. Simulation, Test and Validation

- 10.1 Innovative development methods and tools
- 10.2 Operating strategies
- 10.3 Driving profiles and load configuration
- 10.4 Test and validation

CONTACT



**Questions concerning the
content of the congress?:**

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Exhibition & Sponsoring

The accompanying trade exhibition is an integral part of Dritev, complementing the first-class congress programme with practical insights into the latest developments in powertrain technology. As a central meeting point for the international powertrain community, the exhibition brings together research, development and industrial applications.

Around 60 leading companies showcase innovative products, technologies and services for passenger car and commercial vehicle powertrains as well as off-highway applications. The exhibition provides an ideal setting to discover new solutions, engage directly with experts and establish valuable contacts.

In addition, sponsorship offers companies a wide range of opportunities to showcase their expertise and innovative strength to a high-calibre professional audience. Whether combined with an exhibition stand or used as a stand-alone branding opportunity, tailored sponsorship packages provide an effective platform for increasing visibility, strengthening brand awareness and fostering long-term dialogue with key decision-makers.

YOUR OPPORTUNITY TO PARTICIPATE

The event provides companies with an attractive platform to showcase innovations, products and solutions to a high-calibre professional audience. By combining exhibition participation with tailored sponsorship opportunities, companies can strategically strengthen their presence among leading decision-makers in the industry. With its strong professional reach, the event provides an excellent environment for enhancing visibility and industry engagement. Companies can participate in a variety of formats.

WHO SHOULD BE EXHIBITOR?

Manufacturers, suppliers and service providers from the automotive industry in the following fields:

- Transmissions
- Electric motors
- Power electronics/inverters
- Batteries
- On-board charging systems
- Energy and thermal management
- Battery and fuel cell integration
- Testing and validation
- Tribology
- Other powertrain-related components

Please note:

If your registration as exhibitor or sponsor is received by January 15, 2027 your company name will be printed in the exhibitors' list as part of the program.



CONTACT



Exhibition & Sponsoring:

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Previous Sponsors & Exhibitors



SPECIALS

Parallel event: 10th International VDI Conference - „Drivetrain Solutions for Commercial Vehicles“



Same time and venue as Dritev. Benefit from additional networking and knowledge-sharing opportunities at the parallel running conference "Drivetrain Solutions for Commercial Vehicles". The conference covers the latest developments in battery-electric, CO₂-neutral, hybrid and conventional drivetrain solutions in commercial vehicles. The conference will address aspects across the entire commercial vehicle lifecycle, with a particular focus on complete powertrain systems and transmissions.

Key topics include innovative powertrain architecture, electrification concepts, alternative fuels, and digital development and simulation methods. The programme also covers Software-Defined Vehicles, intelligent control strategies, Vehicle-to-Everything (V2X) concepts, and the regulatory requirements shaping the next generation of commercial vehicles.

Experts from industry, academia, and research will discuss the challenges of transforming commercial road transport and the modal mix in a sustainable and cost-effective way.

Topics

- Drivetrain architectures and vehicle integration
- Electrification concepts for trucks and buses and charging strategies
- Hybridization of heavy-duty commercial vehicles and CO₂-optimized powertrain design
- Software-Defined Vehicles (SDVs) and digital development methods: Impact on drivetrains, predictive control and regulation, and vehicle availability
- Hydrogen and synthetic fuels: Technologies, economics, regulation, and freight transport availability
- Integration of commercial vehicles into vehicle-to-grid scenarios
- Simulation methods and digital development methods for drivetrain solutions
- CO₂ compliance and Euro VII compliance
- Power take-offs (PTOs) and their integration into the vehicle and drivetrain

Submit a presentation proposal for the commercial vehicle sector

Would you like to contribute a technical presentation to the 10th International VDI Conference "Drivetrain Solutions for Commercial Vehicles"? We'd be delighted to hear from you.

Please contact: koerber@vdi.de

One ticket, two conferences

Benefit from more content and a broader network

The "Drivetrain Solutions for Commercial Vehicles" conference and the "Dritev" congress take place at the same time and venue. With one registration you can attend sessions from both programmes free of charge, giving you access to an even broader range of technical insights, experts and networking opportunities.

Participation fee

Early Bird until October 9, 2026

EUR 1,790.00

From October 10, 2026

EUR 1,890.00

From March 1, 2027

EUR 1,990.00

Venue:

Kongresshaus Baden-Baden,
Augustaplatz 10, 76530 Baden-Baden,
Germany

Accommodation:

A limited number of rooms have been reserved for participants. You can find an online booking form at www.dritev.com

Publish your research results in a scientific journal

The scientific journal „Engineering Research – Forschung im Ingenieurwesen“ gives you the opportunity to publish an extended version of your conference publications. Expand your conference contribution by going into more detail about the underlying theories, methodology used and the results of your study. You can then submit your manuscript via the following link, www.editorialmanager.com/fiin, (online submission) taking the formal submission requirements into account.

If your contribution passes the initial publisher's review, it will be further reviewed by independent experts in a double-blind process (peer review).

www.springer.com/journal/10010



Submit your
abstract by
October 9, 2026

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