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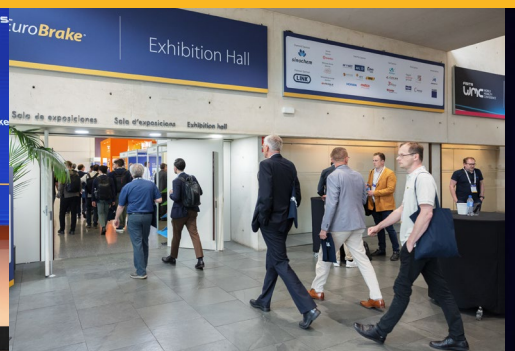
Call for Papers

8 – 10 June 2027
Palau de Congressos de Catalunya, Barcelona

Call for papers partner LINK











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Call for Papers



EuroBrake 2027 is open. Are you ready to contribute to shaping the future of the world's premier braking technology conference.
We are delighted to invite you to submit an abstract for consideration as a technical paper, oral-only presentation or poster presentation.

Participating in the EuroBrake 2027 technical programme is a unique opportunity to reach an influential audience of braking specialists, expanding your professional network by connecting with international braking experts at all levels from senior executives to students.

The 2027 submission and review timeline will follow the schedule outlined in this document, ensuring that a comprehensive technical programme is developed and delivered to the highest standard.

We welcome submissions from companies, organisations, and institutions globally on any of the topics listed for the 2027 edition.

EuroBrake is an essential learning and networking opportunity for engineers, scientists, leaders, academics and students within the areas of braking systems technology and strategy, focusing on the following:

- Application
- Commercial vehicle
- Industry brakes
- Materials
- Mechatronics and functional software
- Motorcycle
- Motor sports
- Numerical simulation
- Passenger car
- Quality and process
- Rail
- Research and development
- Testing and measurement

Why present?

Technical papers accepted for EuroBrake are published by Springer Nature journal as part of the benefit of presenting.

- Share your latest technical innovations and achievements with braking specialists from around the world
- Personal recognition as a leading figure in the braking industry
- Showcase yourself and your organisation as a leader in braking technologies
- Expand your professional network by connecting with international braking experts
- Collaborate with peers and network across all levels, from students to senior executives
- Contribute to shaping the future of the world's premier braking technology conference



2026 highlights

1,000+
Braking professionals in attendance

27
Expert sessions, including Technical sessions, Keynotes and Panel sessions

109
Technical presentations

2027 Topics

Original papers, oral presentations and posters are invited on any of the following topics:

Braking systems and technologies – new and current developments

- The software-defined vehicle and its impacts and potentials for braking systems
- Digital twins – link between modelling, simulation and testing
- Autonomous vehicles and brake system health monitoring
- Braking in Integrated Vehicle Motion Architectures
- Safety and redundancy for brake-by-wire systems and automated driving
- Lessons learned from electro mobility: need for new requirements?
- Regenerative braking
- Braking systems and technologies for automated vehicles
- EMB and BBW – new development and regulatory aspects
- Ecosystem for seamless software and system integration
- Systems engineering
- Functional safety
- Cybersecurity for Brake-by-Wire & Connected Braking Systems
- Human Factors & Brake Pedal Feel in Modern Vehicles

Commercial Vehicles

- Brake particle emissions of LCV and HDV
- Alternative combustion engines e.g. hydrogen drive
- Retarder vs. Recuperation (differences in performance demand)
- Brake disc coatings
- Defence vehicle applications
- Off-highway applications

Industrial and specialised braking systems

- Railway braking systems and tribology
- Innovations in rail braking systems e.g. "brake-by-wire" and electromechanical braking
- Technological measures to reduce non-exhaust emissions from rail e.g. coated rotors
- Motorcycles, e-bikes and micromobility
- Motor sport and high-performance vehicle braking
- Industrial brakes e.g. wind turbines
- Rail brake tribology: NVH and emissions
- Bicycle brakes

2027 Topics

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Components and materials

- Fundamentals of brake mechanisms
- Materials and design
- Friction material testing & requirements for EVs / BEVs
- Brake rotors
- Lightweight design for brake disc system
- Corrosion resistance
- Durability of environmentally friendly brakes
- Raw material investigations and lab studies of raw data
- AI / ML-based friction material formulation
- Future rotor coating materials development including raw materials for coatings
- Aftermarket brake solutions

Environmentally friendly approaches

- Sustainability (logistics, manufacturing processes, manufacturing concepts, testing efforts, material selection, environmental impact, recycling)
- Emissions and abrasion from brake and tyre interaction
- Green brakes / green raw materials for friction materials, including LCA
- Health effects of brake emissions
- Euro7 and UN GTR24 compliance and achieving certification
- Tyre emissions
- Aerosol characterization and impacts on environment and health

Modelling and simulation

- Brake wear and emissions - simulation
- NVH - simulation
- New simulation techniques and data driven methods
- AI / ML-based approaches, research cases, and uses in innovation
- FEA code, virtual certification and design, modelling quality

Testing and standardisation

- Brake wear and emissions - testing
- NVH – testing
- Testing and standardisation
- Simulation, testing, innovative development processes
- Small scale rapid testing & correlation to full scale test results
- Real-world corrosion testing
- Global and local regulatory requirements
- Updates on standardisation activities
- Advanced testing tools (AI based, innovative methodologies, autonomous vehicles)

Vehicle level consideration for brakes and braking system requirements

- Are BEV's on the way out?
- What's next from vehicle architecture that may profoundly impact braking systems?
- Complete chassis system integration
- How future automated driving is going to impact brake performance

How to submit your abstract



Submit your abstract at
https://authors.fisita.com/eurobrake/2027

Deadline for submissions: 18 January 2027

Submitted papers will be reviewed by the EuroBrake Programme Development Committee and the EuroBrake Steering Committee. They reserve the right to assign submitted technical paper abstracts to either an oral or poster presentation.

All accepted submission authors will be required to submit a full paper to be published in the EuroBrake Proceedings. All papers should be original works, not have been published elsewhere and be written, as well as presented, in English. 20 minutes will be allocated for each oral presentation, including time for questions and answers.

Abstracts should contain clear description of the main scientific, technical, economic and/or practical points to be addressed, applied methodology and achieved results paying particular attention to those aspects of the work which are new, innovative and unique.

Abstract requirements

Key Deadlines

18 January 2027	Deadline to submit abstracts
26 February 2027	Acceptance notification
30 March 2027	Deadline to upload review-ready full papers
16 April 2027	Deadline to upload draft oral only presentations and posters
14 May 2027	Final sign-off of papers / presentations /posters by reviewers
21 May 2027	Printing of posters
21 May 2027	Deadline to upload final approved presentation slides

Please include

- Paper title
- Author names and affiliations
- Research and/or engineering questions/objective (max. 100 words)
- Methodology (max. 150 words)
- Results (max. 150 words)
- Limitations of this study (max. 100 words)
- What does the paper offer that is new in the field in comparison to other works of the author? (max. 100 words)
- Conclusion (max. 100 words)

Please note

- Maximum 700 words
- The paper should align with at least one of the themes of the conference
- No figures preferred, but can be included if essential
- Written in English

Permissions and copyright assignment

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EuroBrake®

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