



Organised by **FISITA** 

3 - 5 June 2025  
Palau de Congressos de Catalunya, Barcelona, Spain

**Call for papers**

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# Welcome to EuroBrake 2025



**We invite you to submit an abstract for consideration as a technical paper, oral-only presentation, or poster presentation at EuroBrake 2025.**

**The 2025 submission and review timeline will follow its usual schedule, ensuring that a comprehensive technical programme is developed and delivered to the highest standard. We welcome submissions from companies, organisations, and institutions worldwide on any of the topics listed overleaf.**

**Participating in the EuroBrake 2025 technical programme is an invaluable opportunity to reach an influential audience of braking specialists, share your knowledge, and connect with decision-makers from leading companies around the globe.**

EuroBrake 2024 highlights:

- EuroBrake 2024 attracted over 1,100 delegates.
- The event featured more than 100 technical presentations across 23 sessions, along with keynote addresses, panel discussions, and networking opportunities.
- The technical programme delivered high-quality content with a growing emphasis on cutting-edge research, innovative technology, and environmentally friendly materials and approaches.
- EuroBrake proceedings are published in the FISITA Digital Library, which Members can access at no extra cost as part of their benefits.
- 100 organisations from around the world showcased their products and services in the exhibition.
- Delegates reported high levels of satisfaction (91%).



# Call for papers



Technical papers accepted for EuroBrake are published in the FISITA Digital Library, which attendees and Members can access at no extra cost as part of the benefit of attending.

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 at EuroBrake 2025?

- Share your latest technical innovations and achievements with braking specialists from around the world.
- Position your organisation as a leader in braking technologies.
- Expand your professional network by connecting with international braking experts.
- Engage with the braking community and discuss your work.
- Contribute to shaping the future of the world's premier braking technology conference.



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

### Braking systems and technologies – new and current developments

- Environmentally friendly braking systems
- Digital twins – link between modelling, simulation and testing
- Autonomous vehicles and brake system health monitoring
- Braking systems in the integrated chassis control scenario
- 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
- The software-defined vehicle and its impacts and potentials for braking systems
- Ecosystem for seamless software and system integration
- Systems engineering
- Functional safety
- Vehicle motion control strategies

### 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

### 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

### 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

### 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



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

### Railway braking

- Technological measures to reduce non-exhaust emissions from rail e.g. coated rotors
- Rail brake tribology: NVH and emissions
- Innovations in rail braking systems e.g. “brake-by-wire” (EMB)

### Specialised brakes

- Motorcycles, electric bikes etc
- Motor sport and high-performance vehicle braking
- Industrial brakes e.g. wind turbines

### 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 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

To submit your abstract, visit

<https://authors.figshare.com/eurobrake/2025/>

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.

## Requirements for technical paper abstracts

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.

Authors should observe the following requirements:

- 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

The following should be included in the abstract:

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



## Permissions and copyright assignment

All authors submitting a full written paper must assign copyright of their materials to FISITA for it to be published. By submitting a technical paper, you are giving permission for copyright to be assigned to FISITA.

## Pre-recorded video

All oral and poster presenters selected to be included in the event must submit a pre-recorded presentation. The pre-recorded video, along with the accompanying PDF of the technical paper / presentation slides / poster will be available to EuroBrake attendees and FISITA Members after the event and by agreeing to take part in the event, you are giving permission for content to be used in this manner.

## Key deadlines

13 January 2025	- <b>Deadline to submit abstracts</b>
w/c 10 February 2025	- <b>Acceptance notification to all authors</b>
24 March 2025	- <b>Deadline for review-ready full papers, draft oral only presentations and draft posters to be uploaded onto the paper submission website</b>
7 April 2025	- <b>Deadline for the first review of submitted papers / presentations / posters by reviewers</b>
28 April 2025	- <b>Deadline to submit amended papers / presentations / posters</b>
5 May 2025	- <b>Final sign-off of papers / presentations / posters by reviewers</b>
19 May 2025	- <b>Deadline to upload presentation slides and video recording</b>



## Contact us

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