



Organised by **FISITA** 

12 – 14 September 2023
International Barcelona Convention Centre, Barcelona, Spain

Call for Papers





Welcome to EuroBrake 2023



Following two years of virtual delivery, EuroBrake will return to its face-to-face format within the FISITA Technology of Mobility Conference and Exhibition in Barcelona in September 2023 and is expected to attract 1,000 delegates and 100 exhibitors over three days.

We invite you to submit an abstract for consideration as a technical paper, oral-only or poster presentation at EuroBrake 2023.

The 2023 submission and reviewing process will follow its usual timeline to allow a full technical programme to be defined and delivered as usual, and we welcome submissions from companies, organisations and academic institutions worldwide on any of the topics listed below.

Being a part of the technical programme at EuroBrake 2023 is your opportunity to reach an influential audience of braking specialists, to share knowledge and to connect with decision-makers from leading companies around the world.

Previous event highlights:

Over 100 technical presentations across 20 sessions, plus panel sessions and networking

2022 virtual event with over 650 attendees from 40 countries;

2019 physical event with ~100 exhibitors and >1,200 attendees

Technical programme delivered high-quality content with an increasing focus on cutting-edge research and new technology

Online conference, networking & exhibition in one platform with post-event access to all content & session replays for 3 months

EuroBrake Student Opportunities Programme

Increased attendance from Asia and US



Call for Papers



Technical papers accepted to EuroBrake are published in the FISITA digital library and leading publishing websites.

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

- Academia and research
- Aerospace
- Application
- Commercial vehicle
- Industry brakes
- Materials
- Mechatronics and functional software
- Motorcycle
- Numerical simulation
- Passenger car
- Quality and process
- Race cars
- Rail
- Research and development
- Sales and purchasing
- Testing and measurement
- Wind turbines

Why present at EuroBrake 2023?

- Share your latest technical ideas and achievements with fellow braking specialists from around the world
- Position your organisation as a leading innovator in braking technologies
- Build your professional network with international braking experts
- Discuss your work with the braking community
- Help shape the future of Europe's major braking technology conference



Original papers, oral presentations and posters are invited on any of the following topics in any of the industry's mentioned on page 2:

Brake Systems

- Intelligent braking and braking control
- Environmentally friendly braking systems
- Digital twins – link between modelling, simulation and testing
- Challenges of ADAS requirements

Testing

- Brake wear and emissions - testing
- NVH – testing
- Testing and standardisation
- Simulation, testing, innovative development processes

Modelling and Simulation

- Brake wear and emissions - simulation
- NVH - simulation
- Artificial intelligence
- New simulation techniques and data driven methods

Technologies

- Regenerative braking
- Brake-by-wire
- New developments in braking
- Systems engineering
- The future of braking
- Electromechanical braking

Components and materials

- Fundamentals of brakes
- Materials and design
- Friction material testing & requirements for EVs / BEVs
- Future coating materials development
- Brake rotors

Environmentally friendly approaches

- Sustainability (logistics, manufacturing processes, testing efforts, material selection, environmental impact, recycling)
- Green / zero emission manufacturing
- Life cycle assessment
- GTR / regulation related topics

Commercial vehicle

- Outlook on brake particle emissions of LCV and HDV
- Challenges of electrified LCV and HDV in terms of endurance brake systems
- Challenges of electrified LCV and HDV for truck/trailer brake balance

Railway

- Impact of railway on (urban) air quality issues
- Technological measures to reduce non-exhaust emissions from rail



How to submit your abstract

To submit your abstract, visit the conference website [click here](#).

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

All accepted full technical papers 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 question time.

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:

- 1 x A4 page
- Maximum 700 words
- The paper should align with at least one of the themes of the conference
- Font/typeface: Arial, 10 point, single line spacing
- No figures preferred, but can be included if essential
- Written in English

The following headings should be included in the abstract:

- Paper title
- 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 in order for it to be published. By submitting a technical paper, you are giving permission for copyright to be assigned to FISITA.

The pre-recorded video, along with the accompanying PDF of the technical paper / presentation slides 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

- 28th February 2023 - **Abstract submission deadline**
- 31st March 2023 - **Abstract acceptance notification**
- 31st May 2023 - **Review ready technical paper submission deadline**
- 30th June 2023 - **Draft oral only presentation and poster submission deadline**
- 14th July 2023 - **Modifications to technical papers submission deadline**
- 14th August 2023 - **Deadline to upload final technical papers, presentation slides, posters and pre-recorded videos**



The Organisers

EuroBrake is organised by FISITA, the global membership organisation for the automotive and mobility systems engineering community. It now combines hundreds of thousands of engineers across four member-category types including automotive engineering societies, corporate members, strategic partners, and academia.

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