



Organised by **FISITA** 

Call for Papers  
May 2022



Europe's braking technology  
conference & exhibition



# Welcome to EuroBrake 2022

We invite you to submit an abstract for consideration as a technical paper, oral-only or poster presentation at EuroBrake 2022.

After a successful virtual EuroBrake 2021, we are now planning for 2022, which will be a virtual or hybrid event taking place in May and we are now inviting authors to submit technical papers for EuroBrake 2022.

The 2022 submission and reviewing timeline will follow its usual cadence and we welcome submissions from companies, organisations and institutions worldwide to our updated list of topics.

Contributing to the technical programme at EuroBrake 2022 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.

*“Everything was  
**amazing.**”*

*“Well organised  
conference. **Friendly**  
and **resourceful** staff  
working for FISITA.”*

## 2021 Gold Sponsors



## Previous event highlights:

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

**2021 virtual event with over 650 attendees from 40 countries; 2019 physical event with ~100 exhibitors and >1,200 attendees**

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

**EuroBrake proceedings are published on ProQuest**

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

**EuroBrake Student Opportunities Programme**

**Increased attendance from Asia and US**

If you would like information about the sponsorship opportunities available at EuroBrake 2022, please email Kerry McDiarmid on [sales@fisita.com](mailto:sales@fisita.com)



# Call for Papers

## Technical papers accepted to EuroBrake are published in the FISITA Digital Library and within ProQuest

The FISITA Digital Library is the central archive for all technical contributions from all FISITA international events and member-led activities and working groups. Attendees at FISITA events are provided with access to their event-specific content in the Library.

Learn more about how to register for instant access [here](#).

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**

- **Rail**

- **Research and development**

- **Sales and purchasing**

- **Standardisation**

- **Testing and measurement**

- **Wind turbines**

### Why present at EuroBrake?

**Share your latest technical ideas and achievements with fellow specialists from around the world**

**Position your organisation as a leading innovator in braking technologies**

**Build your professional network**

**Discuss your work with the braking community**

**Help shape the future of Europe's major braking technology conference**



### Key Dates:

Monday 15 November 2021

**Deadline to submit abstracts**

Friday 21 January 2022

**Deadline for review-ready full papers**

Friday 25 March 2022

**Deadline to upload draft presentations and draft posters**

Friday 15 April 2022

**Final date for approval of papers by reviewers**

Friday 22 April 2022

**Deadline to upload video presentations**

Friday 29 April 2022

**Deadline for amends to accepted papers and posters**



# Call for Papers

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

## **Intelligent Braking and Braking Control**

Brake Systems for Highly Automated Road and Rail Vehicles  
Braking for Electric and Hybrid Vehicles  
Innovative Parking Brake Systems  
Innovative Brake Actuators and System Controls (Software and Function Development)  
Safety-relevant braking functions  
Railway Traffic Management Systems

## **Environmentally friendly Braking Systems**

Sustainability in Brake Systems  
Brake Energy Management and Recuperation  
Brake Noise and Drag Reduction  
Lightweight Brake Components  
Brake Emissions – Health Effects and Countermeasures

## **Fundamentals of Brakes**

Friction Interface Dynamics  
Friction-Induced Vibration  
Thermal Effects  
Wear and Emissions  
Scale and Sample Testing

## **Manufacturing and Markets**

Manufacturing, Quality Control and Warranty Claims  
Global Standardisation  
Aftermarket, Global Sourcing  
Governmental Regulation and Homologation of Brake Systems  
CO2 Mitigation

## **Materials and Design**

Innovative Friction Materials and Components  
Disc, Drum, Wheel Materials, Coatings and Design  
AI Approaches to Brake Design  
Optimisation of Thermal and NVH Performance  
Reduction of Particulate Emissions

## **Complex Systems involving Brakes**

Integrated Rolling Chassis  
Brakes in Wind Turbines/Rotational Machinery  
Aircraft Brakes  
Braking Test - Representativeness and Downscaling  
Management and operational strategies

*Papers should be original and must not have been presented elsewhere.*

*All abstracts, papers, posters and presentations must be written and presented in English.*

**SUBMIT YOUR ABSTRACT  
BY 15 NOVEMBER**

[www.eurobrake.net/authors](http://www.eurobrake.net/authors)

Did you know you can also present your work as a poster? Just choose to submit an abstract for poster-only presentation when prompted online.

## **Abstracts should contain the following:**

Title of the submission  
Clear description of the main scientific, technical, economic and/or practical points to be addressed, paying attention to those aspects of the work which are new, innovative and unique (350–500 words)  
Key words (3-5 words)

**As we move towards carbon neutral economies, we particularly encourage submissions on environmental-friendly braking solutions for applications such as rail, commercial vehicles, motorcycle, testing/standardisation and electric road vehicles.**





# EuroBrake Student Opportunities Programme 2022

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## Support the next generation of mobility engineers

A selected group of international students, with a passion for mobility engineering, were invited to participate in the virtual EuroBrake Student Opportunities Programme (ESOP) 2021.

Thanks to ESOP 2021, 50 students were provided with access to the full EuroBrake technical programme, Q&A sessions, Round Table sessions, Surgery sessions, CV and career advice and support from a dedicated ESOP Working Group.

The ESOP initiative will return in 2022 to provide students with the unique opportunity to learn about the international mobility and braking industry, as well as contribute and participate in activities with peers and experts.

Student applications will open in Q1 2022.

- **ESOP is delivered through the kind sponsorship of braking technology companies within the EuroBrake community**
  - **Please consider supporting the next generation of engineers through your company sponsorship of ESOP**
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To sponsor ESOP, contact Kerry McDiarmid at [sales@fsita.com](mailto:sales@fsita.com)

For more information about ESOP, contact Hayley Millar at [h.millar@fsita.com](mailto:h.millar@fsita.com)

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## The Organisers

EuroBrake is organised by FISITA, the international membership organisation that supports the automotive and mobility systems sector in its quest to advance technological development. Having delivered against this mission for every generation of engineers since 1948, we are uniquely placed to promote excellence in mobility engineering and the development of safe, sustainable and affordable mobility solutions.

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## Contact us

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[www.eurobrake.net](http://www.eurobrake.net)