

ON SITE & ONLINE

automotive  
**CAE**  
GRAND  
CHALLENGE

May 19 – 20, 2026  
Congress Park Hanau  
Germany

// EXHIBITION & SPONSORSHIP



[www.carhs.de/grandchallenge](http://www.carhs.de/grandchallenge)

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# automotive **CAE** GRAND CHALLENGE

## Automotive CAE Grand Challenge, Congress Park Hanau, Germany, May 19 – 20, 2026

The automotive CAE Grand Challenge stimulates the exchange between users, scientists and software developers in order to solve the challenges of CAE based car development. Annually the current challenges of automotive CAE are being identified through a survey among simulation experts of the international automotive industry. In the conference one session is dedicated to each of the most critical challenges, the "Grand Challenges". In every session CAE experts from industry, research and software development explain the importance of the individual Challenge for the virtual development process and report on their efforts to overcome the challenge.

### TARGET GROUPS:

The automotive CAE Grand Challenge is attended by simulation engineers from automotive manufacturers, suppliers and engineering companies, staff of research institutes and universities as well as from software manufacturers.

Participants from Europe and overseas make up a significant part of the audience.



**"An unusual event concept made the automotive CAE Grand Challenge sustainably successful: Preview of this year's vital dialogue platform on current challenges and answers in the area of simulation and verification in car development."**

<https://d1g1tal.de/automotive-cae-grand-challenge-to-explore-the-status-of-simulation/>

### THE GRAND CHALLENGES OF 2026:

// ARTIFICIAL INTELLIGENCE, MACHINE LEARNING, BIG DATA:  
**HOW CAN AI ACTUALLY HELP DESIGNING A VEHICLE?**

// CAE PROCESS & QUALITY ASSURANCE: **AUTOMATED CAE  
MODEL QUALITY CHECKS FOR CERTIFICATION READINESS**

// DURABILITY / FATIGUE: **FATIGUE SIMULATION  
OF HV-BATTERIES (VIBRATION FATIGUE)**

// FULL VEHICLE SIMULATION:  
**VIRTUAL VERIFICATION AND CERTIFICATION**

// OCCUPANT SAFETY:  
**META MODELS FOR OCCUPANT INJURY PREDICTION**

// MATERIAL MODELING - FOCUS STRUCTURAL ANALYSIS:  
**ADVANCED MODELLING OF MATERIAL DAMAGE AND FAILURE**

// OPTIMIZATION & ROBUSTNESS:  
**CHALLENGES OF MULTIDISCIPLINARY DESIGN OPTIMIZATION**



## Impressions



## Previous Participants

4a engineering • AIT • Altair • Applus IDIADA • ARRK Engineering • ASC(S) • AUDI • Autoliv • AVL • Basell • BASF • BAST • Poliolefine • Benteler • Bertrandt • BETA CAE • BMW • Bosch • Brose • Cascate • CDH • Ceetron • CENAERO • Contact • Continental • Cray • CRF • CRH • CSI • Daimler • DLR • Dow • Draexlmaier • DSM • EDAG • EOMYS • Faurecia • FE Design • FIFTY2 • Ford • Fraunhofer LBF • Fraunhofer IWM • Fraunhofer ITWM • Fraunhofer SCAI • Fuji Heavy • Fundación CIDAUT • Gestamp • HBM • Hirtenberger • Honda • Humanetics • Hyundai • IAT • IAV • IEE • ihf • Imperia • IndustrieHansa • Isuzu • Jaguar-Land Rover • Johnson Controls • JSOL • Karmann • Key Safety Systems • Key to Metals • Kirchhoff • Lamborghini • L&L • Lasso • Lear • MAGMA • Magna • Mahindra • MATFEM • MAZDA • MIRA • MSC • Mubea • NISSAN • Nippon Steel • Opel • PART • Penso • pdb • Plastic Omnium • Porsche • P+Z • QLF • Reydel • RLE • Saab • SAIC • Saint Gobain • Scania • SFE • Sika • Skoda • SmartCAE • TASS • TU Graz • Takata • Tata • Technalia • Toyota Gosei • Toyota • Toyota-Boshoku • TRW • VIF • Volke • Volkswagen • Volvo • Xitadel • and many more

## Previous Exhibitors and Sponsors



## Sponsorships

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<b>Exhibition booth<sup>1</sup></b>	✓	✓	✓	✓
<b>Conference tickets</b> <b>ON SITE (incl evening event) or ONLINE</b> <small>Combinations of ON SITE and ONLINE Tickets are possible (e.g. a GOLD sponsor can opt for 1 ON SITE and 4 ONLINE tickets).</small>	1 ON SITE	2 ON SITE or 4 ONLINE	3 ON SITE or 6 ONLINE	5 ON SITE or 10 ONLINE
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<b>Get involved in the conference. Talk to us.</b>	–	–	–	✓
<b>Company profile in event app</b>	✓ 4 <sup>th</sup> position	✓ 3 <sup>rd</sup> position	✓ 2 <sup>nd</sup> position	✓ 1 <sup>st</sup> position
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<sup>1</sup>**Exhibition booth includes:** 3 x 2 m exhibition space: table, chairs, electricity 230 V, waste disposal, presentation during the guided tour of the exhibition and profile in exhibitor list on conference website.

## Sponsor Workshop\*\*

- Includes
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  - Video projector, refreshments
  - Announcement in conference brochure and on web site with sponsor logo

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\* Logo placement: Conference flyer, cover pages and presentation during conference breaks, logo and weblink on web page and in email newsletters.

\*\* only bookable when ordering a sponsor package.

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