ON SITE & ONLINE



April 08 – 09, 2025 Congress Park Hanau Germany

// EXHIBITION & SPONSORSHIP



www.carhs.de/grandchallenge

Your contact
Natascha Elsässer
+49 (0)151 107 386 70
natascha.elsaesser@carhs.de





Automotive CAE Grand Challenge, Congress Park Hanau, Germany, April 08 – 09, 2025

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.

THE GRAND CHALLENGES OF 2025:

'ARTIFICIAL INTELLIGENCE, MACHINE LEARNING, BIG DATA: PHYSICS INFORMED NEURAL NETWORKS

// CAE PROCESS & QUALITY ASSURANCE: MANAGEMENT OF CAE MODEL EVOLUTION DURING A DEVELOPMENT PROGRAM

// FULL VEHICLE SIMULATION: ROAD LOAD DETERMINATION WITH ADVANCED WHEEL AND TIRE MODELS

> NOISE, VIBRATION, HARSHNESS: PREDICTION ACCURACY OF ACOUSTIC ANALYSIS

// OCCUPANT SAFETY: **BEHAVIOR OF RESTRAINT SYSTEMS FOR DIVERSE HUMAN PROPORTIONS**

// OPTIMIZATION & ROBUSTNESS: **SENSITIVITY ANALYSIS FOR** CRASH SIMULATIONS WITH EXPLICIT CODES

// VIRTUAL MANUFACTURING: SIMPLIFIED CASTING SIMULATION. **ESPECIALLY FOR GIGA CASTINGS**





"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/



Impressions



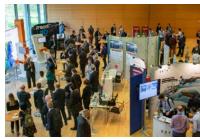


















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Additional ONLINE conference tickets	EUR 350 Order No. CAEGC2025-09	EUR 350 Order No. CAEGC2025-10	EUR 300 Order No. CAEGC2025-11	EUR 250 Order No. CAEGC2025-12			

¹Exhibition 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.

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