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Congress
March 13 – 14, 2018,
Ingolstadt, Germany

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CONFERENCE FEE

€ 980,00 plus current VAT (if applicable)
The registration fee includes conference documentation, lunch and beverages during breaks as well as the evening event.

Conference Venue

Technische Hochschule Ingolstadt
CARISSMA
Esplanade 10
85049 Ingolstadt, Germany

Exhibition

Interested companies have the opportunity to present their products and services during the accompanying industrial exhibit. For further information please contact Sabine Lieckfeldt (sabine.lieckfeldt@tuev-sued.de, Phone +49 89 5791 1122).

Program Committee

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Chairman

Prof. Dr. Lothar Wech, Technische Hochschule Ingolstadt

Target audience

– Automotive industry
– System providers and supplier industries
– Engineering service providers
– Universities, research units/institutes
– Technical experts and legal lawyers

The Congress

There is a clearly noticeable trend worldwide to driver assistance systems and automated driving. But even if automated driving contributes to improving road safety it should not be equated with "Vision Zero" (zero fatalities in road transport) and accident-free driving. Measures to further improvement of passive safety will remain indispensable. But assisted and automated driving will have an important influence on passive safety. There will be a substantial chance of types of accidents and of injury patterns, e.g. due to the position of the occupants in the vehicle.

crash.tech 2018 will therefore focus on simulation and testing of integrated safety systems. What will be the future of passive safety like when the new technologies are implemented and what is the benefit of active safety systems for the passive safety? Major topics of the congress are as well the safety-related requirement of future vehicle assessment procedures and approval tests and how important will be passive safety in the ratings of the consumer organization.

This year’s program will furthermore concentrate on the practical experience of vehicle safety testing. You will therefore have the possibility to visit the research- and testing facility CARISSMA at the Technische Hochschule Ingolstadt.

Don’t miss out the 14th crash.tech conference. We are looking forward to welcoming you in Ingolstadt.
Agenda on March 13, 2018

09:30 Welcome
Prof. Dr. Walter Schober,
President Technische Hochschule Ingolstadt (DE)

09:45 Vision Zero Update
Prof. Dr. Claes Tingvall, former Director Traffikverket and Euro NCAP

10:15 Vehicle Safety & the UN Sustainable Development Goals: priorities to 2030
David Ward, Global NCAP

10:40 20 years Euro NCAP – Achievements and foresight
Michiel van Ratingen, Euro NCAP

11:05 Passenger-side small overlap testing
Becky Mueller, Insurance Institute for Highway Safety (IIHS) (US)

11:30 Coffee break

Traffic Analysis and Accident Research, Safety Legislation
Chair: Prof. Dr. Klaus Langwieder, International Safety Consulting (DE)

12:00 Characteristics, accident causation and accident consequences for elderly in road traffic
Henrik Liers, accident research at TU Dresden GmbH; Dr. Heiko Johannsen, Michael Jänsch, Hannover Medical School (DE)

12:25 Causation of accidents involving vulnerable road users
Dr. Stefanie Weber, University Clinic Regensburg, AARU Audi Accident Research Unit; Kristin Blum, AUDI AG (DE)

12:50 Incidence and characteristics of heavy truck crashes in Germany – Results from a total survey
Dr. Axel Malczyk, Jenö Bende, Dr. Matthias Kühn, German Insurers Accident Research; Tobias Trabert, Iryna Shevzenko, Dr. Gerd Müller, Technische Universität Berlin (DE)

13:05 Lunch

14:05 Upcoming new requirements on vulnerable road users’ safety
Benjamin Bünger, Dr. Thomas Kinsky, Opel Automobile GmbH (DE)

14:30 How should a EDR for autonomous vehicles look like from the accident analyst point of view
Klaus Böhm, Technische Hochschule Ingolstadt / DEKRA; Prof. Hans-Georg Schweiger, THI; Andreas Forster, Robert Resch, Continental; Melanie Kreutner, Carsten Reinkemeyer, Allianz Center for Technology; (DE); Bettina Zahnd, Stefan Liechti, AXA Schweiz (CH)

Safety of Electrified Vehicles
Chair: Manfred Prinz, AUDI AG (DE)

14:55 Integration of safety concepts in the Opel Ampera-e
Dr. René Henn, Opel Automobile GmbH (DE)

15:20 Electromobility – a new challenge for firefighters
Dr. Rolf Erbe, Berlin Academie of fire departments and rescue operations (DE)

15:45 Coffee break

16:15 Research – and testing facility CARISSMA at the THI – Test demonstrations on integral safety – Visit to the laboratories

17:45 End of first day / Evening event
Agenda on March 14, 2018

08:30  Well connected towards the future – cooperations between Industry and academia for future mobility
       Jochen Feese, Prof. Dr. Rodolfo Schöneburg, Daimler AG (DE)

08:45  Strategy on road safety of the European Union
       María Teresa Sanz-Villegas, European Commission – Directorate-General MOVE Mobility and Transport

Test and Simulation Methods (Part 1)
Chair: Dierk Arp, MESSRING Systembau GmbH (DE)

09:10  The physical testing of integral safety systems at the new Technology Center for Vehicle Safety at Mercedes-Benz in Sindelfingen
       Prof. Norbert Schaub, Prof. Dr. Rodolfo Schöneburg, Helmut Ruoff, Matthias Struck, Daimler AG (DE)

09:30  New vehicle drive concepts, future testing procedures and efficient test execution: A challenge for the infrastructure and the safety concepts of crash test labs
       Bernhard Maier, IAV Vehicle Safety GmbH & Co KG (DE)

09:50  Euro NCAP: MPDB-The new mobile barrier frontal impact 2020
       Volker Sandner, ADAC e. V. (DE)

10:15  Coffee break

Test and Simulation Methods (Part 2)
Chair: Bernd Lorenz, Federal Highway Research Institute (BASf) (DE)

10:45  Evaluation of new frontal test and assessment procedures proposed by the EU-project SENIORS for improved protection of elderly car occupants
       Andre Eggers, Marcus Wisch, Julian Ott, Federal Highway Research Institute (BASf);
       Thomas Barlog, Peter van Ast, Ford Werke GmbH, (DE);
       Bengt Pipkorn, Krystoffer Mroz, Autoliv Research (SE)

11:10  Differences in comparative tests with diverse Flex PLI
       Dirk-Uwe Gehring, BGS Böhme & Gehring GmbH;
       Dr. Thomas Kinsky, Opel Automobile GmbH (DE)

11:25  Camera Alignment System for passive safety crash tests
       Genís Mensa, Alba Fornells, Applus IDIADA (ES)

11:50  Fully controlled side impact simulation on sled with ALIS high dynamics actuators
       Michal Kalinsky, TÜV SÜD Czech s.r.o. (CZ);
       Pau Cohn, ENCOPIM SL (ES)

12:15  Lunch

Benefits of Driver Assistance on Passive Safety Systems
Chair: Prof. Dr. Rodolfo Schöneburg, Daimler AG (DE)

13:15  Potential and risk for road traffic safety in view of future changes
       Karl-Heinz Baumann, SafetyFirst; Prof. Dr. Rodolfo Schöneburg, Daimler AG; Christof Kerkhoff, VDI (DE)

13:40  Requirements for crash analyses and market monitoring during introduction of highly automated driving
       Udo Steininger, TÜV SÜD Rail GmbH; Prof. Dr. Lothar Wech, Technische Hochschule Ingolstadt (DE)

14:05  Current research results on accidents of heavy goods vehicles based on third-party liability claims with injuries and prognosis of the safety potential of driver assistance systems
       Marcel Borrack, Shiva Janarthanan, Dr. Johann Gwehenberger; AZT Automotive GmbH, Allianz Center for Technology; Prof. Dr. Lothar Wech, Technische Hochschule Ingolstadt (DE)

14:30  Coffee break

Influence of Active Safety Systems on the Crash Behavior
Chair: Dr. Swen Schaub, ZF Friedrichshafen AG

15:00  Early activation of passive safety actuators by forward-looking crash parameter estimation
       Robert Lugner, Kilian Schneider, Prof. Dr. Thomas Brandmeier, Technische Hochschule Ingolstadt (DE)

15:25  Challenges in analyzing the impact of automated driving on the design of occupant restraint system design
       Wolfgang Sinz, F. Reszi, D. Kofler, E. Tomasch, Technische Universität Graz (A); P. Lewerenz, M. Mai, Technische Universität Dresden; Jan Dobberstein, Th. Unseit, A. Özürek, C. Geisler, Daimler AG; H. Freienstein, D. Schmidt, Robert Bosch GmbH (DE)

15:50  Simulation of radar sensor raw data by raytracing for a scenario based MiL/SiL-test of pre-crash functions
       Dr. Christian Lauerer, Sameed Tehami, Tatjana Ulanziuk, Assystem Germany GmbH; Robert Huber, Robert Lugner, Prof. Dr. Thomas Brandmeier, Technische Hochschule Ingolstadt (DE)

16:15  Outlook and farewell
       Prof. Dr. Lothar Wech, Technische Hochschule Ingolstadt (DE)
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congress@tuev-sued.de

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Registration and information
TÜV SÜD Akademie GmbH
International Conferences
Sabine Lieckfeldt
Westendstraße 160
85049 Ingolstadt, Germany
Telefon +49 89 5791-1122
Telefax +49 89 5155-2468
congress@tuev-sued.de