

Topics

Traffic analysis and accident research

- Analysis and prospects of accidents in Germany, Europe and worldwide
- Driving scenarios, naturalistic driving studies
- Characteristics of accidents with vulnerable road users
- Influence of personal characteristics such as age, gender or body mass index
- Driver distraction

Challenges for politics and society

- Safety legislation: requirements, trends and implementation
- Worldwide crash-rating methods and consumer information
- Influence of changes in mobility on possible future testing procedures
- Harmonization

Test and simulation methods

- Measurement, experimental and analytical methods
- Test systems, measurement and camera technology
- Dummy development and validation
- The use of human body models
- Augmented reality / virtual reality
- Data acquisition, data use and data management
- Interaction between simulation and test
- Test- and evaluation procedures for integral safety systems

Structural safety and protective systems

- Innovative protective systems and their testing/assessment
- New materials and their influence on the vehicle safety
- Interior safety, restraint systems, safety sensors
- Compatibility: new vehicle concepts and vehicle categories
- Protection of vulnerable road users (e.g. pedestrians, bicycles, smallest electric vehicles, such as electric scooters, hoverboards or electric skateboards)
- Safety of electrified vehicles and their components as well as safety of vehicles with alternative drive systems

Tertiary (post-crash) safety

- eCall
- Rescue routes and rescue equipment

Influence of autonomous driving

- Impact of autonomous driving on future test requirements
- The impact of active safety systems on the safety system design
- Vehicle innovations, new interior concepts
- Further development of integrated vehicle safety approaches, e.g. with regard to mixed traffic

