

Suggested Topics

Vehicle Automation

- Transfer of control
- Trust in automation
- Driver adaptation to automation
- Connected vehicles, vehicle-to-vehicle communication
- Ethical and legal issues

Driving Technology and HMI

- Head-up displays and augmented reality
- Text and speech interfaces
- Multi-modal driver alerts and warnings
- Driving simulation
- Assistive technologies and universal design

Driver Types and Other Road Users

- Pedestrian and bicyclist safety
- Risky driver behavior (e.g., speeding, tailgating)
- Age-related issues (younger and older drivers)
- At-risk populations (medical conditions and prescription drugs)
- Commercial vehicles operations (e.g., trucks, taxis, rideshares)

Attention, Neurological & Clinical Medical Issues in Driving

- Inattention, distraction and drowsiness
- Driver impairment detection and mitigation
- Visual and cognitive impairment
- Medical disorders
- Driver rehabilitation and driver training
- Physiological measures and markers

Research Methods and Analysis

- Naturalistic driving studies
- Simulator and test tracks evaluation methods and validation
- Data reduction techniques
- Data fusion
- Analysis techniques
- Driver modeling and prediction