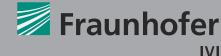
Fraunhofer Institute for **Transportation and Infrastructure Systems IVI**

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www.ivi.fraunhofer.de/en



FRAUNHOFER INSTITUTE FOR TRANSPORTATION AND INFRASTRUCTURE SYSTEMS IVI

Guide2Wear

EDDA-Bus

le control and sensor systems

sportation, energy and environment

vehicle hall

ty **test platforms** ticketing and fares

transportation systems

eling and process control sensor and actuator systems identification of traffic situations tation ecology vehicle technologies

vel assistance multi-axle steering and guidance systems surement technology mobile measurement technology

intelligent transport systems

introduction of electric buses affic system data disposition

g autartec® HandyTicket Deutschland ctric bus

saster management

COMMUNICATION AND DESIGN

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CONTACT

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EmiD HORUS® battery management AutoTram strategy and optimization

vehicle and propulsion technologies Vehic

mechatronic systems tran

technical center large-scale test stan

vehicle and road safe

propulsion technologies digital business processes

stationary energy storage systems system mod

operational planning and command _ autonomous utlilities systems test trac

transport planning mobility and tra

test vehicles electromobility

high frequency mea

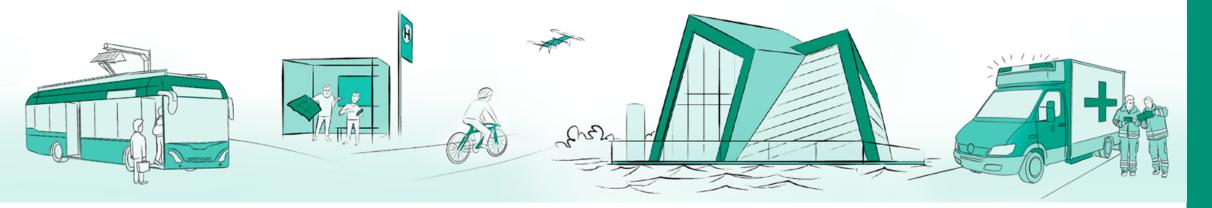
transpor

transportation systems/ human-machine interaction

storage systems and converters tr

vehicle and transport system engineering

characterization of battery cells



VEHICLE AND TRANSPORT SYSTEM ENGINEERING

- Vehicle concepts (focus: commercial vehicles)
- Propulsion and steering control systems
- Vehicle and traffic safety
- Implementation concepts for electric buses
- Intelligent sensor systems and sensor data processing

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Dr. Frank Steinert

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INTELLIGENT TRANSPORT SYSTEMS

- System data and Big Data
- Mobile and backend applications
- Ticketing and fares
- Information and navigation applications

Dr. Torsten Gründel

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COGNITIVE AND COOPERATING SYSTEMS

- System solutions for connected and automated driving
- Development of algorithms and communication protocols
- Infrastructure object detection
- Realization and assessment of test drives and communication tests

Prof. Dr. Matthias Klingner

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STRATEGY AND OPTIMIZATION

- Operational command systems for hazard prevention and emergency management
- Risk analyses and resource planning
- Digital business processes and Big Data
- Modeling and optimization of logistics processes and infrastructure systems

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ENERGY SYSTEM ENGINEERING

- Numerical calculation and design of electrical machines
- Control and optimization of electric traction systems

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RESEARCH.MOVES

The Fraunhofer IVI has developed into an efficient institute that has earned national and international renown thanks to its outstanding professional expertise. In close collaboration with clients and partners as well as policy makers and funding agencies, visions have been designed and solutions presented.

The institute's research focus lies on well-established topics from vehicle and propulsion technologies, as well as on new challenges in the context of automated and connected driving. Technologies for the improvement of civil security are also becoming increasingly important.

The Fraunhofer Institute for Transportation and Infrastructure Systems IVI employs over 100 researchers. The institute collaborates closely with the universities TU Dresden, TU Bergakademie Freiberg and TH Ingolstadt.

The Fraunhofer IVI offers high-performance laboratories, innovative test platforms and vehicles as well as modern IT structures. A new technical center including a vehicle hall and adjacent test track are part of the institute's facilities.