COMMUNICATION AND DESIGN

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ADMINISTRATION

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INTERNATIONAL BUSINESS

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EUROPEAN BUSINESS

Marlen Kittelmann
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VEHICLE AND TRANSPORT SYSTEM ENGINEERING

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

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Dr. Frank Steinert
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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

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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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APPLICATION CENTER »CONNECTED MOBILITY AND INFRASTRUCTURE«

at Technische Hochschule Ingolstadt

- Infrastructural safety assurance of traffic
- Traffic control and management
- Function monitoring of vehicles and infrastructure

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MOBILITY AND DIGITAL SERVICES

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

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

For more than 20 years, the Fraunhofer IVI has been a leading innovator in the fields of

- Mobility and digital services
- Vehicle and propulsion technologies
- Electromobility
- Vehicle and road safety
- Energy systems
- Civil protection and security
- Process data analysis

Established in 2019, the Fraunhofer Application Center »Connected Mobility and Infrastructure« at the TH Ingolstadt focuses on future topics of automated and cooperative driving.

In addition to high-performance laboratories, innovative test platforms and vehicles as well as modern hardware and software, the Fraunhofer IVI’s research infrastructure includes a technical center with a vehicle hall and an adjacent test track.