

Department of Vehicle Engineering



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Research area

1. Electric Vehicles and Control Technology
2. Intelligent Driving Vehicle Evaluation Technology
3. Long Downhill Driving Safety Technology for Heavy Vehicles



YISONG CHEN 陈轶嵩

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Research area

1. LCA of New Energy Automobile
2. Automobile Industry Planning and Policy Analysis



BIN LI 李彬

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Research area

1. Cooperative Vehicle Infrastructure System
2. Optimization Design Technology of Electric Vehicle
3. Traffic Big Data Analysis



WANGFANG YUAN 袁望方

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Research area

1. Vehicle and Traffic Safety
2. Real-time Simulation Technology of Driver-Vehicle-Road
3. Freeway Transportation



YI HAN 韩毅

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Research area

1. Battery and Vehicle Control System for New Energy Vehicles
2. Driverless Intelligent Vehicle System
3. Road, Bridge, Tunnel, High-speed Rail Inspection System
4. Smart Medical Device
5. Emerging Technology in the Vehicle



SHAobo XIE 解少博

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Research area

1. Optimization and Control of Electrified Powertrains
2. Control of Connected and Automated Vehicles
3. Vehicle System Dynamics



LIMING MA 马骊溟

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Research area

1. Mechanical Optimal Design
2. Mechanical Manufacturing Process
3. Finite Element Analysis



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Research area

Vehicle System Dynamics



HONGBO TANG 汤宏博

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Research area

1. Vibration and Noise Control
2. Mathematical Modeling of Mechanical System



PING ZHANG 张平

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Research area

1. Vehicle Structural Design and Analysis
2. Intelligent Vehicle



YAOHUA LI 李耀华

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Research area

1. Electric Vehicle and Intelligent Connected Vehicle
2. Electric Drive and Motor Control
3. Automotive Electronic Control



JIANFENG WANG 王建锋

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Research area

1. Vehicle NVH Technology
 2. Vehicle Safety Technology and Theory
 3. Intelligent Detection and Control Technology
-



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Research area

1. Heat transfer, energy conversion storage and applications
2. Intelligent thermal and energy management for new energy vehicles
3. Interdisciplinary Research of automobile, energy, and transportation systems



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Research area

1. Safety Technology of Vehicle
2. Intelligent Vehicle Control Technology
3. Vehicle Testing Technology



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Research area

1. Vehicle Collision Safety Design
2. Vehicle Lightweight Design



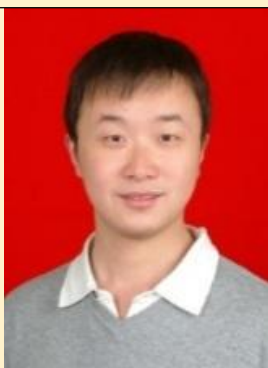
SHU WANG 王澍

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Research area

1. Energy Demand Side Management
 2. Planning of Electrical Vehicle Charging Station
 3. Active Distribution Network Planning
 4. Vehicle-to-Grid Vehicle-to-Home
-



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Research area

1. Driverless Car
2. Intelligent Connected Vehicle
3. Automobile Active Safety System



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Research area

1. Group Theory of Power Battery on Electric Vehicle
2. Electric Vehicle Theory and Technology
3. Vehicle Nonlinear Dynamics



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Research area

1. Vehicle Design Theory
2. Finite Element Theory
3. CAE Technology for Vehicle
4. Vehicle Lightweight Theory
5. New Material Research for Vehicle
6. Vehicle Passive Safety Technology



ZHAOKAI LI 李兆凯

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Research area

1. Automotive Crashworthiness Structural Design, Analysis and Optimization
 2. Advanced Automotive Lightweight Materials
 3. Automotive CAE Technology
 4. Automotive Air Conditioning Technology
 5. Intelligent Control Technology for Unmanned Vehicle
-



DAWEI ZHANG 张大伟

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Research area

1. Vehicle-Track/Road Coupled Dynamics
 2. Vehicle Running Safety
 3. Vehicle Vibration and Noise
 4. Vehicle Fault Diagnosis
-



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Research area

1. Crashworthiness of Automobile
 2. Cellular Material
 3. Composite Material
-



LIMING YAN 颜黎明

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Research area

1. Electric Drive System of Electric Vehicle
 2. Design of High Power Density Permanent Magnet Synchronous Motor
 3. Drive Circuit and Integrated Technology of SiC Converter
 4. Advanced Control Theory of Electric Drive System
-



DEAN MENG 孟德安

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Research area

1. Vibration Assisted Forming Technology
 2. FEM Simulation for Multi-physics
 3. PMSM Fault Diagnosis
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Research area

1. Hybrid Electric Vehicle
2. Control Theory and Applications
3. Digital Signal Processing



RUI LIU 刘瑞

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Research area

1. Intelligent Vehicle Perception and Control
2. Intelligent Vehicle Evaluation
3. Shared Driving



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Research area

1. Vehicle Energy Management
2. Battery State Estimation
3. Battery Fault Diagnosis



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Research area

1. Automotive Lightweight
2. Intelligent Manufacturing
3. Optimization Design



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Research area

1. Fuel Cell Design and Optimization
 2. Direct-Methane SOFC Multi-physical Field Coupling
 3. Hydrogen Fuel Cell Engine Simulation
-



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Research area

1. Electromagnetic suspension
2. Tunable Damping
3. Vibration Energy Harvesting



Jun Peng 彭俊

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Research area

1. Multi parameter monitoring of electric vehicle power battery;
 2. Lithium battery state estimation and safety management based on multi-source data fusion;
 3. Development of detection technology for new electric vehicle power battery;
 4. Multi field coupling modeling and Simulation of power battery
 5. Intelligent battery management based on artificial intelligence and data driven
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Department of Mobility Engineering



SHIFENG NIU 牛世峰

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Research area

1. Transportation enterprise safety management
2. Intelligent monitoring and data analysis of drivers' driving behaviours
3. Unsafe driving behaviour Intervention
4. Road safety improvement



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Research area

1. Intelligent connected vehicle collaborative control
2. Driver-vehicle-road system safety
3. Vehicle industry planning and analysis



SHENGYU YAN 闫晟煜

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Research area

1. Traffic and transport planning
2. Theory and optimization of operation system in public transport
3. Vehicle performance testing
4. Intelligent Traffic and Transportation System



MENG LI 李猛

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Research area

1. Monitoring and diagnosis of mechanical equipment
2. Friction and lubrication design
3. Non-destructive testing
4. Bearing-rotor system analysis



RUI FU 付锐

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Research area

1. Driver-vehicle system safety
2. Human-autonomous collaboration
3. Driving behaviour
4. Traffic safety



WEI YUAN 袁伟

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Research area

1. Eco driving
2. intelligent connected vehicles
3. Driving behaviour



ZHAOWEN QIU 邱兆文

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Research area

1. Transportation, Environment/Energy systems and Public health
2. Mobile emissions inventory and Air quality modelling
3. Vehicle emission control
4. Green logistics



XINFENG ZHANG 张新锋

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Research area

1. System Reliability and Failure Diagnosis
2. the Intelligent and Connected Vehicle and Transportation
3. the Theory and Technology of New Energy Automotive



WEI ZHANG 张韡

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Research area

1. Highway safety audit and improvement
2. Road traffic accident identification and analysis
3. Traffic planning
4. Transportation enterprise safety management



LIANGMIN LI 李良敏

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Research area

1. Intelligent diagnosis theory and technology
2. Vibration signal processing
3. Automatic driving technology



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Research area

1. Vehicle driving behaviour and test schedule
2. Physical and chemical characteristics of vehicle emissions
3. Vehicle emission modelling
4. In-use vehicle emission control



YAN BAI 白艳

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Research area

1. Trajectory Planning of Automatic driving technology
2. Vehicle Dynamics (Handling)



QI XIN 辛琪

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Research area

1. Trajectory planning and following for connected platoon
2. Bus bunching and queueing modelling and mitigation control
3. Microscopic driver behaviour modelling and analysis
4. Automated transportation system implementation



HUAN PANG 庞欢

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Research area

1. Reliability analysis and design method of structure / mechanism
2. Reliability evaluation method of complex system
3. Data-based product reliability analysis and decision technology
4. mechanism design



YILI LIU 刘意立

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Research area

1. Reverse logistics planning
2. Life-cycle assessment of vehicles
3. Compliant transportation of hazardous waste



KAICHAO ZHANG 张凯超

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Research area

1. Structure/System Reliability Analysis and Design
2. Uncertainty Quantification & Sensitivity Analysis
3. Machine Vision
4. Traffic Safety



JINGYI LIU 刘敬一

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Research area

1. Automobile reliability
2. System/mechanism/structure reliability
3. Prognostic and health management (PHM)



DAN ZHU 朱丹

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Research area

1. Dynamic research of embedded fuel cell system
2. Hydrogen storage using metal hydride materials
3. Energy management & thermal control of fuel cell vehicles



Qinyu Sun 孙秦豫

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Research area

1. Human-machine collaboration system
2. Intelligent driving systems
3. Vehicle active safety systems



FENGQI ZHANG 张风奇

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Research area

1. Intelligent driving and energy-saving control of electrified vehicles
2. Powertrain optimization and control for electrified vehicles
3. Connected and automated vehicles



YALI ZHANG 张雅丽

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Research area

1. Eco-driving
2. Energy-saving Technology for electric vehicle
3. Driving Behavior Analysis



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Research area:

1. Dynamic control of intelligent and connected vehicles
2. End-to-end decision-making for autonomous driving systems
3. Motion control of intelligent vehicles

Department of Logistics Engineering



JINGSHUAI YANG 杨京帅

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Research area

1. Human-Vehicle-Infrastructure Interactive Safety
2. Logistics System Optimization and Application
3. Public Transport Operation Optimization



XIAOYAN SHEN 沈小燕

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Research area

1. Dangerous goods Logistics and Logistics Safety
2. Transportation Safety Management
3. Vehicle Safety Engineering and Road Traffic Safety Technology



QIANG GAO 高强

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Home Page:

Research area

1. Mechanical Test and Control Technology
2. Noise & Vibration Control
3. Intelligent Vehicle
4. Intelligent Logistics



YINGBIN FU 付颖斌

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Research area

1. Intelligent logistic technology based on Internet of things and block chain
2. Operation mechanism of Supply Chain Based on complex network
3. Perception of production logistics information technology



YULEI GU 顾玉磊

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Research area

1. Modern logistics Management
 2. Supply Chain Optimization and Management
 3. Supply chain behavior decision-making
-



BOXUAN ZHAO 赵博选

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Home Page:

Research area

1. Production and Logistics System optimization and designing
 2. Planning and scheduling in Electrical vehicle transportation
 3. Intelligent optimization algorithm
-



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Home Page:

Research area

1. Eco-driving technology of electric vehicle
 2. Vehicle safety driving assistance technology
 3. Adaptive data-driven control for vehicle yaw stability
-



WENHUI WEI 魏文辉

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Home Page:

Research area

1. Autonomous navigation and positioning technology for intelligent vehicles
 2. Satellite navigation and its integrated navigation
 3. Nonlinear filtering technology and performance evaluation
 4. Multi source information fusion technology
 5. Vision, radar and their combined navigation technology
-



NAN DING 丁楠

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Home Page:

Research area

1. Green Transportation
 2. Facility Planning in Electrical Vehicle Transportation
 3. Traffic Control Optimization; Human Behavior Modeling
 4. Dynamic Pricing in Sports Revenue Management
-



MANMAN LI 李慢慢

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Home Page:

Research area

1. Transportation system optimization
 2. Transportation network modeling
 3. Travel behavior analysis
-

Department of Intelligent Vehicle Engineering



YANG GAO 高扬

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Research area

1. Navigation of autonomous vehicles
2. Simultaneous Localization and Mapping
3. Machine learning
4. Intelligent equipment in Logistics



TAO CHEN 陈涛

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Research area

1. Analysis and Simulation Technology of Road Traffic Accident
2. Driver-Vehicle-Road Simulation
3. Intelligent Connected Vehicle Safety Technology
4. Cooperative Vehicle-Infrastructure System



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Research area

1. Intelligent driving technology
2. Human-vehicle cooperation driving
3. Driving behaviour



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Research area

1. Intelligent Vehicle Technology
2. Vehicle System Dynamics
3. Vehicle Safety Technology



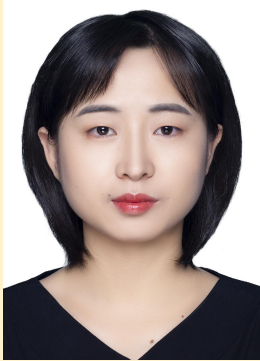
YINGJIU PAN 潘应久

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Research area

1. Big data computing and decision making for connected vehicles
2. Eco-driving control strategy for connected and autonomous vehicles
3. Dangerous driving behaviour identification and traffic safety control



YANZI SHI 师艳子

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Research area

1. Intelligent Image Processing (object detection and tracking, semantic/instance/panoptic segmentation)
2. Multi-modal Data Fusion
3. Deep Learning

Engine And Automobile Performance Laboratory



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Research area

1. Intelligent Electric Vehicle
2. Vehicle Dynamic Control



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Research area

1. Electric vehicle and control technology
2. Vehicle dynamic control



CHENYU ZHOU 周辰雨

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Research area

1. Intelligent Automobile Active Suspension and Safety
2. Vehicle system dynamics modelling and identification

Laboratory of Mobility Engineering



FUWEI WU 吴付威

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Research area

1. Driver-vehicle system safety
2. Human-vehicle cooperation driving
3. Traffic behavior and psychology
4. Intelligent assisted driving



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Research area

1. Intelligent connected vehicle collaborative control
2. Driver-vehicle-road system safety
3. Virtual test of vehicle performance



WENSHAN ZHANG 张文珊

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Research area

1. Vibration analysis of reciprocating machinery
2. Active electromagnetic and control technology
3. Multi-body dynamics simulation
4. Labyrinth seal