

# Department of Vehicle Engineering



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**Research area**

1. Electric and Clean Energy Vehicle Technology
2. Vehicle Detection Technology and Theory
3. Vehicle Dynamics Performance



**YINGSHI GUO** 郭应时

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**Research area**

1. Intelligent Vehicle Systems Test
2. Human-machine Systems
3. Vehicle Active Safety
4. Autonomous Driving Algorithms Development



**XUAN ZHAO** 赵轩

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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



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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. Thermal management of Electrical Vehicle
2. Water and Thermal Management of PEMFC
3. Intelligent Energy and Energy Storage
4. Heat and Mass Transfer



**PEILONG SHI**      史培龙

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**Research area**

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



**GUOHUA ZHU**      朱国华

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**Research area**

1. Vehicle Collision Safety Design
  2. Vehicle Lightweight Design
-



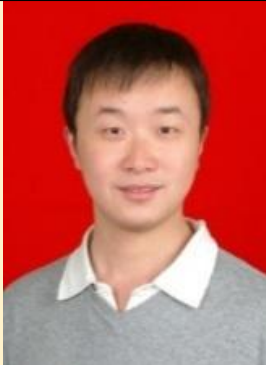
## SHU WANG 王澍

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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



## WEI YANG 杨炜

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### Research area

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



## ZHEN FENG 冯镇

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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



## TONG WANG 王童

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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
- 



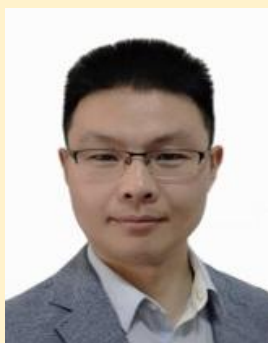
**GENG LUO**     罗耿

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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



**QI BIAN**      边琦

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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



**ZHEN WANG**      王振

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**Research area**

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



**PEI FU** 付佩

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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
-



# 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



YONGTAO LIU 刘永涛

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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



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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
-

# 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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Home Page: <https://js.chd.edu.cn/qcxy/sxy/list.htm>

**Research area**

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



SHUANGYING XU 徐双应

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Home Page:

**Research area**

1. Transportation Logistics Node, network and system planning research
2. urban and rural road passenger transport system planning and design
3. Automotive Application Engineering Research
4. Intelligent transportation system



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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**Research area**

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



ZHENZHEN GE 葛振振

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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 李嫚嫚

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**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



**CHANG WANG**      王畅

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**Research area**

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



**SHUO ZHANG**      张硕

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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

# Engine And Automobile Performance Laboratory



YILIN HE 贺伊琳

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Home Page:

**Research area**

1. Intelligent Electric Vehicle
2. Vehicle Dynamic Control



SHU WANG 王姝

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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



JIE QIAO 乔洁

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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