

## Appendix A – Staff Resume



<b>Name</b>	YANG Jian
<b>Post</b>	Professor
<b>Academic career</b>	<p>1979-1983 Heilongjiang Institute of Science and Technology, B. E., Major in Mechanical Design</p> <p>1985-1988 China University of Mining and Technology, M. E., Major in Mechanical Engineering</p> <p>2001-2005 Zhejiang University, Ph.D., Major in Mechatronic Engineering</p>
<b>Employment</b>	<p>1983-1985 Heilongjiang Institute of Science and Technology, Assistant</p> <p>1988-1996 Heilongjiang Institute of Science and Technology, Lecturer</p> <p>1996-2001 Heilongjiang Institute of Science and Technology, Associate Professor</p> <p>2005- Shanghai University of Engineering Science, Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Harvesting and recovery method of track vibration energy based on the running of train, Funded by NSFC (No. 51575334). Period: 2016-2019.</li> <li>● Research on Braking Energy Control and Recovery Methods of Urban Rail Vehicles Based on Vehicle-mounted Devices, funded by NSFC (No. 51075255). Period: 2011-2013.</li> <li>● Mechanism of track vibration energy harvesting based on the running of urban railway train, funded by Shanghai Municipal Education Commission (No. 14ZZ158). Period: 2016-2019.</li> <li>● Research on Braking Energy Recovery System of Urban Rail Transit Vehicle Based on Vehicle-mounted Devices, funded by Shanghai Science and Technology Commission (No. 061111033). Period: 2006-2013.</li> </ul>



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<p><b>Industry collaborations over the last 5 years</b></p>	<ul style="list-style-type: none"> <li>● Comprehensive performance test of pantograph for urban rail vehicles, funded by Chengdu Southwest Jiaotong University Science and technology management Park Co., Ltd. (No. (16)GP-005). Period: 2016/04~2017/07.</li> <li>● Pantograph fault test of rail vehicles, funded by Southwest Jiaotong University (No.(17)GD-019). Period: 2017/09~2017/12.</li> </ul>
<p><b>Patents and proprietary rights</b></p>	<ul style="list-style-type: none"> <li>● An Energy Harvesting Device for Track Vertical Vibration. Patent code: ZL201310287792.0</li> <li>● Analog Device and Method for Vertical Coupling Forces Between Wheel sets and Rails. Patent code: ZL201310288014.3</li> </ul>
<p><b>Important publications</b></p>	<ul style="list-style-type: none"> <li>● <b>Jian Yang</b>, Yue Hou, Ruigang Song, Tian-Chen Yuan, Modeling and analysis of the electrical braking energy of urban railway vehicles, Simulation: Transactions of the Society for Modeling and Simulation International, 2015, 91(11): 989-997.</li> <li>● Song Ruigang, Tian-Chen Yuan, <b>Jian Yang</b>, Hao He, Simulation of braking energy recovery for the metro vehicles based on the traction experiment system, Simulation: Transactions of the Society for Modeling and Simulation International, 2017, 93(12): 1099-1112.</li> <li>● Tian-Chen Yuan, <b>Jian Yang</b>, Li-Qun Chen. Nonparametric Identification of Nonlinear Piezoelectric Mechanical Systems. ASME Journal of Applied Mechanics, 2018, 85: 111008(13p).</li> <li>● Tian-Chen Yuan, <b>Jian Yang</b>, Ruigang Song, Xiaowei Liu, Vibration energy harvesting system for railroad safety based on running Vehicles, Smart Materials and Structures, 2014, 23(12): 125046(14pp).</li> <li>● Tian-Chen Yuan, <b>Jian Yang</b> and Li-Qun Chen, Nonlinear characteristic of a circular composite plate energy harvester</li> </ul>



	<p>experiments and simulations, <i>Nonlinear Dynamics</i>, 2017, 90: 2495-2506.</p> <ul style="list-style-type: none"> <li>● Tian-Chen Yuan, <b>Jian Yang</b> and Li-Qun Chen, Experimental identification of hardening and softening nonlinearity in circular laminated plates, <i>International Journal of Non-Linear Mechanics</i>, 2017, 95 (2017): 296-306.</li> <li>● Tian-Chen Yuan, <b>Jian Yang</b> and Li-Qun Chen, Nonlinear dynamic of a circular piezoelectric plate for vibratory energy harvesting, <i>Communications in Nonlinear Science and Numerical Simulation</i>, 2018, 59: 651-656.</li> <li>● Tian-Chen Yuan, <b>Jian Yang</b>, Ruigang Song, Xiaowei Liu, A reduced-scale experiment system for vehicle-rail vertical vibration. <i>Journal of Vibration and Shock</i>, 2016, 35(6): 115-120.</li> <li>● Nannan Han, <b>Jian Yang</b>, Tian-Chen Yuan, Ruigang Song, Transverse Wind Vibration of Catenary Based on Discrete Wavelet Transform. <i>Journal of the China Railway Society</i>, 2016, 11: 43–49</li> </ul>
<p><b>Activity in professional associations within the last 5 years</b></p>	<ul style="list-style-type: none"> <li>● <b>Jian Yang</b> (1/6). Braking Energy Recovery Technology for Urban Rail Vehicles, Silver award of excellent invention in the 25th Shanghai excellent invention competition, Shanghai Federation of Trade Unions, 2013</li> <li>● <b>Jian Yang</b> (1/7). Research and application of braking energy recovery technology based on on-board for urban rail vehicles, Third prize of Shanghai Science and Technology Progress Award, The Shanghai Municipal People's Government, 2018.</li> </ul>



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<b>Name</b>	ZHENG Shubin
<b>Post</b>	Professor
<b>Academic career</b>	<p>1998-2002 Southwest Jiaotong University, B.E., Major in Mechanical Engineering</p> <p>2002-2007 Southwest Jiaotong University, Ph.D., Major in Vehicle Operation Engineering</p>
<b>Employment</b>	<p>2008-2010 Shanghai University of Engineering Science, Lecturer</p> <p>2011-2017 Shanghai University of Engineering Science, Associate Professor</p> <p>2011-2012 Shanghai Shentong Metro Group Co., Ltd., Temporary Post for Personal Training and Development, Engineer</p> <p>2015-2016 St. Cloud State University, MN, USA, Visiting Scholar</p> <p>2018- Shanghai University of Engineering Science, Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Dynamic Diagnostic Method and Theory of Track Diseases Based on Vibration and Vision Fusion. Funded by NSFC (No. 51975347), Period: 2020-2023. (PI)</li> <li>● Inversion Theory and Method of Track Structure Performance Parameters Based on Dynamic Dignosis, Funded by NSFC (No. 51478258). Period: 2015-2018. (CO-PI)</li> <li>● Continuous Moving Measurement Theory and Method for Railway Track Settlement. Funded by NSFC (No. 51405287), Period: 2015-2017. (PI)</li> <li>● Railway Track Inspection Key Technologies Based on Multi-sensor Data Fusion. Funded by Shanghai Committee of Science &amp; Technology (No. 13510501300), Period:</li> </ul>



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	<p>2013-2016. (PI)</p> <ul style="list-style-type: none"> <li>● Railway Track Alignment Measurement Method under Continuous Moving Condition. Funded by NSFS (No. 12ZR1412300), Period: 2012-2015. (PI)</li> </ul>
<p><b>Industry collaborations over the last 5 years</b></p>	<ul style="list-style-type: none"> <li>● 2019 Annual Assessment of Shanghai Rail Transit Facility &amp; Equipment – Part 1: Rail Vehicle. Funded by Shanghai Shentong Metro Group Co. Ltd, Period: 2019-2020, (CO-PI)</li> <li>● Improvement Project of Rail Transit Operation Simulation System in Shanghai Metro Training Base. Funded by Shanghai Shentong Metro Group Co. Ltd., Period: 2017-2019. (PI)</li> <li>● Testing and Assessment of Shanghai High-Speed Maglev Train’s Key Structure Component. Funded by Tongji University, Period: 2014-2016. (PI)</li> <li>● Online Calculation &amp; Evaluation Model of Vehicle Dynamic Parameters. Funded by Southwest Jiaotong University Technological Garden Management Co. Ltd., Period: 2013-2016. (PI)</li> </ul>
<p><b>Patents and proprietary rights</b></p>	<ul style="list-style-type: none"> <li>● Rail Alignment Measurement Method Based on Vision and Inertial Information Fusion, Patent code: ZL201610349090.4</li> <li>● Rail Wear Measurement Method Based on Dynamic Template, Patent Code: ZL201210261886.6</li> <li>● Solar Power Device and Control Method, Patent code: ZL201610530460.4</li> <li>● Micro-Grid Solar Charging Pile and Charging Method, Patent code: ZL201610554009.6</li> <li>● On-line Monitoring Device Powered By Solar Energy, Patent code: ZL201610496627.7</li> <li>● Photovoltaic DC Charging Pile System, Patent code: ZL201610973550.0</li> <li>● Piezoelectric Energy Self-powered Rail Vehicle Bearing Monitoring Device, Patent code: ZL201920576584.5</li> </ul>



<p><b>Important publications</b></p>	<ul style="list-style-type: none"> <li>● <b>Shubin Zheng</b>, Qianwen Zhong, Xiaodong Chai, Xingjie Chen, Lele Peng. A Novel Prediction Model for Car Body Vibration Acceleration Based on Correlation Analysis and Neural Networks[J]. Journal of Advanced Transportation, 2018: 1-13.</li> <li>● <b>Shubin Zheng</b>, Qianwen Zhong, Lele Peng, Xiaodong Chai. A Simple Method of Residential Electricity Load Forecasting by Improved Bayesian Netural Networks[J]. Mathematical Problems in Engineering, 2018 (9): 1-16.</li> <li>● <b>Shubin Zheng</b>, Lele Peng, Liming Li, Xiaodong Chai. Track Alignment Inspection Based on Multi-sensors Fusion of Machine Vision and Inertial Measurement[J]. Journal of Vibration, Measurement &amp; Diagnosis, 2018, 38(2): 394-400, 426 (in Chinese)</li> <li>● <b>Shubin Zheng</b>, Xiaodong Chai, Lele Peng, Liming Li. Wheel vibration estimation of railway vehicle utilizing state observer[J]. Journal of Vibroengineering. 2017, 19(2): 988-999.</li> <li>● <b>Shubin Zheng</b>, Xiaodong Chai, Shengchao Su, Xingchang Liu. Relative Pose Calibration Between Inertial Unit and Visual Unit in Railway Track Inspection System[J]. Journal of the Balkan Tribological Association. 2016, 22(2): 672–683</li> <li>● <b>Shubin Zheng</b>, Xiaodong Chai, Xinchang Liu, Huaiqing Lin. Calibration of The Spatial Pose Between Inertial and Visual Sensors With An Inclinometer[J]. The Open Cybernetics &amp; Systemics Journal. 2015, 9: 2637-2641</li> <li>● <b>Shubin Zheng</b>, Xiaodong Chai, Lele Peng. Rectification of Railway Track Detecting Signal Utilizing Digital Variable Filter[J]. International Journal of Simulation, Systems, Science &amp; Technology. 2015, 16(5B): 19.1-19.5</li> <li>● <b>Shubin Zheng</b>, Xiaodong Chai, Xiaoxue An, Liming Li. Rail Wear Measuring Method Based on Dynamic Template[J]. China Railway Science, 2013, 34(2):7-12. (in Chinese)</li> <li>● <b>Shubin Zheng</b>, Xiaodong Chai, Xiaoxue An, Liming Li. Railway Track Gauge Inspection Method Based on Computer Vision, Proceedings of 2012 IEEE International Conference on Mechatronics and Automation. 1292-1296. ICMA, 2012</li> <li>● Lele Peng, <b>Shubin Zheng</b>, Xiaodong Chai, Liming Li. A novel tangent error maximum power point tracking algorithm</li> </ul>
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	<p>for photovoltaic system under fast multi-changing solar irradiances[J]. Applied Energy, 2018(210): 303-316</p> <ul style="list-style-type: none"><li>• Lei Zhang, <b>Shubin Zheng</b>, Xiaodong Chai, Qingxia Xu, Anqi Zi. Optimization of Projection Matrix Between Cameras Based on Levenberg-Marquardt Algorithm[J]. Journal of Information and Computational Science. 2015, 12(4): 1607-1614</li><li>• Xiaodong Chai, <b>Shubin Zheng</b>, Song Geng, Lei Zhang. Vibration Prediction of Rail Vehicle Based on Neural Network[J]. Journal of Information and Computational Science. 2015, 12(16): 5889-5899</li><li>• Xiaodong Chai, <b>Shubin Zheng</b>, Wenfa Zhu, Qizhen Jiang. Detection for rail route state deformation based on trap-down inertial technology[J]. Applied Mechanics &amp; Materials. 2014(49): 136-143.</li></ul>
<p><b>Activity in professional associations within the last 5 years</b></p>	<ul style="list-style-type: none"><li>• <b>Shubin Zheng</b> (2/7). Key Measuring Technology of Rail Track Geometry Based on Fusion Technique of Computer Vision and Inertial Measurement. Shanghai Science and Technology Progress Award, 2017</li><li>• <b>Shubin Zheng</b> (2/6). Control System for Simulation System of Rail Transit Operation Based on Wireless Communication. Silver award of excellent invention in the 24th Shanghai excellent invention competition, Shanghai Federation of Trade Unions, 2011</li></ul>



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<b>Name</b>	YU Chaogang
<b>Post</b>	Associate Professor
<b>Academic career</b>	1987-1989 Railway University of Shanghai, B.S., Major in Physics 1985-1988 Northeast Agricultural University, M.E., Major in Agricultural Electric Automatization 2001-2005 Zhejiang University, Ph.D., Major in Agricultural Electric Automatization
<b>Employment</b>	1984-1987 WoYuan Towns Middle School of PU AN county, Teacher 1989-1999 Rail Middle School of Liupanshui, Teacher 2005- Shanghai University of Engineering Science, Associate Professor
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"><li>● An automation machine for injection moulding machine. Funded by Shanghai Education Commission. (No. 15cxy37) Period: 2015-2016.</li></ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"><li>● An automation machine for injection moulding machine, Funded by JiangSu JiaMeng Electrical Equipment CO.LTD ((17) GD-015) Period: 2017-2019.</li></ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"><li>● An automation machine for injection moulding machine. Patent code: CN106032047B</li></ul>





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<b>Important publications</b>	<ul style="list-style-type: none"><li>● Feng Chao, <b>Yu Chaogang</b>, Sun Lei, Qin Xin. Prediction of Track Irregularity Based on Improved, Railway Standard Design, 2019, 63(4):34-49</li><li>● Ji Heng, <b>Yu Chaogang</b>, Zhang Dong. Study on The Simulation Model of High Frequency Signal Injection in PMSM Traction System[J]. Journal of communication and networking, 2015, 5(3): 39-43.</li><li>● Shi Yonggong, <b>Yu Chaogang</b>. The Design of MVB Communication Controller Based on an FPGA. International Journal of research in Engineering and science[J], 2017, 5(6):13-23.</li><li>● Qin Wei, <b>Yu Chaogang</b>. Design Implementation of Image Acquisition System Based on STM32[J]. International Core Journal of Scientific Research &amp; Engineering Index, 2017, 7(2): 64-67.</li><li>● <b>Yu Chaogang</b>, Ying Yibing. Determining heating pipe temperature in greenhouse using proportional integral plus feedforward control and radial basic function neural-networks[J]. Journal of Zhejiang University Science A(Science in Engineering), 2015(04): 16-20.</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● Act as one of the judges on The 32nd China Adolescents Science &amp;Technology Innovation Contest, 2017, Hangzhou.</li></ul>



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<b>Name</b>	SHI Wei
<b>Post</b>	Associate Professor
<b>Academic career</b>	<p>1999-2003 Tongji University, B.E., Major in Vehicle Engineering (Rail Transit Vehicle)</p> <p>2003-2006 Tongji University, M.E., Major in Vehicle Engineering (Rail Transit Vehicle)</p> <p>2008-2013 Shanghai University, Ph.D., Major in Power Electronics and Power Transmission</p>
<b>Employment</b>	<p>2006-2008 Shanghai University of Engineering Science, Assistant</p> <p>2008-2013 Shanghai University of Engineering Science, Lecturer</p> <p>2012-2013 Shanghai Shentong Metro Group Co., Ltd., Temporary Post for Personal Training and Development, Engineer</p> <p>2013- Shanghai University of Engineering Science, Associate Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Development and industrialization of product platform for high power density vehicle inverter, funded by Ministry of science and technology (No. 2016YFB01700). Period: 2016-2020.</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Research on general interface specification of vehicle and signal system. Partner: Shanghai Shentong Metro Group Co., Ltd.. Period: 2015-2016.</li> <li>● Urban rail vehicle electrical control and power supply operation simulation system. Partner: Shanghai Shangyi Educational Equipment Co., Ltd. Period: 2015-2016.</li> </ul>



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<p><b>Patents and proprietary rights</b></p>	<ul style="list-style-type: none"> <li>● Teaching equipment for hardware in the loop simulation of urban rail vehicle control circuit and gas path, Patent code: ZL201610254744.5.</li> <li>● Permanent magnet temperature and magnetic field real-time online detection device and its application, Patent code: ZL201810845629.4</li> </ul>
<p><b>Important publications</b></p>	<ul style="list-style-type: none"> <li>● <b>Shi Wei</b>; Zhou Xuan; Online Estimation Method for Permanent Magnet Temperature of High - Density Permanent Magnet Synchronous Motor, IEEJ Transactions on Electrical and Electronic Engineering, 2020, 15(5): 565-571.</li> <li>● <b>Shi Wei</b>, Liu Xiao, Fault diagnosis of axle box bearing based on improved EEMD-Hilbert envelope demodulation, Measurement and control technology, 2017,36(2):44-49.</li> <li>● <b>Shi Wei</b>, Zhang Zhouyun, Anti-demagnetization Modeling of Interior Permanent Magnet Motor by Bidirectional Magnetic Network, ITEC Asia-Pacific, 2016, 170:9-15.</li> <li>● <b>Shi Wei</b>, Zhang Zhouyun, Multi-objective Optimum Design Method with Anti-demagnetization of High Density Permanent Magnet Synchronous Motor: IEEJ Transactions on electrical and electronic engineering, 2014, 9(5): 555-562.</li> <li>● <b>Shi Wei</b>, Huang Surong, Zhang Zhouyun, Mathematical model and Simulation of Inverter - permanent magnet brushless motor system, Transactions of China Electrotechnical Society, 2009,24(10): 17-22</li> <li>● <b>Shi Wei</b>, Gong Jun, Huang Surong, Review of permanent magnet motor permanent magnet anti demagnetization Technology. Microelectric motor, 2012(4):71-75.</li> </ul>
<p><b>Activity in professional associations within the last 5 years</b></p>	<ul style="list-style-type: none"> <li>● Shanghai Metro Education Award, 2019</li> </ul>



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<b>Name</b>	YAO Huiming
<b>Post</b>	Associate Professor
<b>Academic career</b>	<p>1997-2001 Lanzhou Jiaotong University, B.E., Major in Locomotive Engineering</p> <p>2002-2005 Lanzhou Jiaotong University, M.E., Major in Safety Technique and Engineering</p> <p>2012-2018 Tongji University, Ph.D., Major in Vehicle Engineering (Rail Transit Vehicle)</p>
<b>Employment</b>	<p>2001-2006 Lanzhou Jiaotong University, Assistant</p> <p>2006-2012 Shanghai University of Engineering Science, Lecturer</p> <p>2007-2008 Shanghai Shentong Metro Group, Engineer</p> <p>2017-2018 Newcastle university, Academic Visitor</p> <p>2012- Shanghai University of Engineering Science, Associate Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Key Technology Research on Real-Time Safety Monitoring and Early Warning for Railway Trains Based on Self-Learning and Big Data, funded by “Key Technology R&amp;D Program, Founded by the Shanghai Committee of Science and Technology (Grant No. 15590501400). Period: 2015-2018.</li> <li>● Study on Wheel-Rail Impact Stability with Gap of Railway Vehicle and Safety Early-Warning Algorithm Based on Chaos, Funded by Shanghai Municipal Education Commission (Grant No. 14YZ136). Period: 2014-2016.</li> </ul>



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<p><b>Industry collaborations over the last 5 years</b></p>	<ul style="list-style-type: none"> <li>● Air-Conditioner Real-Time Monitoring System of Urban Railway Vehicle. Partner: Shanghai Shentong Metro Group (Grant No. JS-KY14R016). Period: 2015-2016.</li> <li>● High-speed rail profile test and statistical analysis of Beijing to Shanghai ,Beijing to Guangzhou and Wuhan to Guangzhou. Partner: Changchun Railway Vehicles Co., Ltd., China northern locomotive rolling stock industry. Period: 2014-2014.</li> <li>● Research on Corrugation Repair Method and System Development of Curve Rail in Urban Railway. Partner: Shanghai GuiPing Mechatronic Science Co., Ltd. Period: 2014-2016.</li> </ul>
<p><b>Patents and proprietary rights</b></p>	<ul style="list-style-type: none"> <li>● A Handy Type Corrugation Accurately Repairing Device of Urban Railway Curve Rail, Patent code: ZL201410328403.9</li> <li>● An Automatic Corrugation Accurately Repairing Device of Urban Railway Curve Rail. Patent code: ZL201410350489.5</li> </ul>
<p><b>Important publications</b></p>	<ul style="list-style-type: none"> <li>● <b>Yao Huiming</b>, Shen Gang. Study on Safety Early Warning Strategies of Runing Gear Mechanical Fault of the Railway Vehicle. IAVSD13. 2013.08</li> <li>● <b>Yao Huiming</b>, Yang Jian, Fang Yu. Computing and Modeling of Urban Railway Traction Transmission System[J]. 3rd International Symposium on Electronic Commerce and Security. 2010, 07</li> <li>● <b>Yao Huiming</b>. Stability Analysis Of A Class Of Three-Degree-Of-Freedom Vibro-Impact System[J], Journal Of Mechanical Strength. 2005, 27(1):6-11. (in Chinese)</li> <li>● Chai Xiaodong, <b>Yao Huiming</b>, Chai Liang. Removal of Interference from FSK Signal Using the Method of Blind Signal Separation Based on ICA[J]. Journal of China Railway Science.2013.12. (in Chinese)</li> <li>● <b>Yao Huiming</b>, Zhang Shuhua, Yu Shujun, Fang Yu, Yang Jian. Study on Lyapunov Exponential Spectrum Calculation Method of Nonlinear Characteristics of a Class of an Impact Damper[C]. Proceeding of Second International Conference on Information and Computing Science, IEEE Computer Society. 2009,05</li> </ul>



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	<ul style="list-style-type: none"><li>● Chai Xiaodong, <b>Yao Huiming</b>. Removal of Interference from FSK Signal Based on Independent Component Analysis[C]. IEEE Computer Society Press(ISCST2008).2008,12</li><li>● Zhang Shuhua, <b>Yao Huiming</b>. Study on Lyapunov Exponential Spectrum Calculation Method of Nonlinear Characteristics of a Class of an Impact Damper[J]. Engineering Mechanics. 2008(12):99-109(in Chinese)</li><li>● <b>Yao Huiming</b>. Study on Simulation of Real-Time Resistance Force of Urban Railway Vehicle Based on LabVIEW[J]. Urban Mass Transit,2011,(11):106-108. (in Chinese)</li><li>● <b>Yao Huiming</b>, Yang Jian, Fang Yu. Test and Research on Resistance Brake of UrbanRail Transit Vehicle [J]. Urban Mass Transit,2010,(10):35-37. (in Chinese)</li><li>● Luo Guanwei, Yu Jianning, <b>Yao Huiming</b>. Periodic Motions And Bifurcations Of A Small Vibro-Impact Pile Driver[J]. Engineering Mechanics. 2006(07).(in Chinese)</li><li>● <b>Yao Huiming</b>. Controlling Chaotic Motions in Lorenz System[J]. Journal of Lanzhou Railway Institute,2001,04. (in Chinese)</li><li>● Ye Zhejun and <b>Yao Huiming</b>. Study On Standardization Method Of Rail Vehicle Bogie Vibration Characteristics Based On Clustering Analysis [J], Journal Of Communications And Networking, 2015. 5(12):32-37.</li><li>● Yuan Zhao, <b>Yao Huiming</b>. Parameter Estimation Of Suspension Test Bench For Urban Rail Vehicle Based On Extended Kalman Filter[J] ,Journal Of Communications And Networking, 2015. 5(12):38-43.</li><li>● Jiang Yaxin, <b>Yao Huiming</b>. Numerical Analysis of the Effect to Temperature Field Base on Stop Operation in Metro Vehicle Carriage [J]. Computer Simulation. 2015.32(12):124-128,151. (in Chinese)</li><li>● Chen Xinjie, <b>Yao Huiming</b>. Braking Distance and Critical Velocity Calculation of Rescue Coupled Trains in Urban Rail Transit[J]. Urban Mass Transit. 2014, 09:75-78. (in Chinese)</li></ul>
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<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● Shanghai Metro Education Award, 2019</li></ul>
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<b>Name</b>	LIAO Aihua
<b>Post</b>	Associate Professor
<b>Academic career</b>	<p>1995-1999 Dalian Jiaotong University, B.E., Major in Locomotive and Vehicle</p> <p>2000-2003 Dalian Jiaotong University, M.E., Major in Vehicle Engineering (Rail Transit Vehicle)</p> <p>2003-2007 Dalian University of Technology, Ph.D., Major in Mechanics</p>
<b>Employment</b>	<p>1999-2000 Dalian locomotive &amp; rolling stock co. LTD Assistant Engineer</p> <p>2007-2013 Shanghai University of Engineering Science, Lecturer</p> <p>2014- Shanghai University of Engineering Science, Associate Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>• Theoretical and experimental study on nonlinear vibration of a laminated circular plate harvester, Funded by NSFC (No. 11802170). Period: 2019-2021.</li> <li>• Harvesting and recovery method of track vibration energy based on the running of train, Funded by NSFC (No. 51575334). Period: 2016-2019.</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>• Research on Technology of Hanging Air Rail Vehicle Assembly and Key System. Funded by CRRC Qingdao Sifang Co., Ltd.. Period: 2013-2014.</li> <li>• Professional system Development of National Training Base for High Skilled Talents. Funded by Shanghai Shentong Metro Group Co., Ltd.. Period: 2015-2016.</li> <li>• Research on Fault Detection System and Reliability Evaluation of Vehicle Bogie Bearing. Funded by Shanghai Shentong Metro Group Co., Ltd.. Period: 2017-2018.</li> </ul>





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<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"><li>● A Vibration Damping Camera Rack of Vehicle. Patent code: ZL201310058792.3</li><li>● An Evaluating Reliability System of Bogie Rolling Bearing. Patent code: 201620649841.X</li><li>● An LED Lighting System for Subway Car Based On Wireless Transmission. Patent code: ZL201620457842.4</li><li>● A Telescopic Hanging Basket of Bedside. Patent code: ZL201720448135.3</li></ul>
<b>Important publications</b>	<ul style="list-style-type: none"><li>● <b>A H Liao</b>, H xu, F Yu. Fatigue Analysis for Bogie Frame Based on Rigid-Flexible Coupling Simulation. Journal of Vibration, Measurement &amp; Diagnosis [J], 2017, 37(2):392-397.</li><li>● <b>A H Liao</b>, X D Chai, J Yang. A Numerical Simulation of Elastoplastic Contact Analysis of Compressor by Overspeeding. Advances in Mechanical Engineering, 2014.4.</li><li>● <b>A H Liao</b>. Frictional Contact Analysis of Turbocharger Compressor-Shaft Sleeve-Shaft [A]. in Zhangjiajie, 2009 International Conference on Measuring Technology and Mechatronics Automation[C], IEEE Computer Society, 2009: 869-871.</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● 2014 Outstanding Young Teacher in Shanghai Universities</li><li>● 2016 Shanghai Metro Education Award</li></ul>



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<b>Name</b>	LI Xiaobo
<b>Post</b>	Associate Professor
<b>Academic career</b>	<p>1993-1997 Shandong University of Science and Technology, B.E., Major in Electrical Technology</p> <p>1999-2002 Shandong University of Science and Technology, M.E., Major in Power Electronics and Power Drives</p> <p>2002-2005 Shandong University of Science and Technology, Ph.D., Major in Machinery Electronics Engineering</p>
<b>Employment</b>	<p>1997-2002 Shandong University of Science and Technology, Assistant</p> <p>2002-2008 Shandong University of Science and Technology, Lecturer</p> <p>2009-2012 Shanghai University of Engineering Science, Lecturer</p> <p>2014-2015 Shanghai Metro Maintenance Company (Vehicle Branch), Engineer</p> <p>2013- Shanghai University of Engineering Science, Associate Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"><li>• None</li></ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"><li>• Research on Power Frequency Characteristic Test Bench of Alstom Auxiliary Inverter. Founded by: Shanghai Shentong Metro Group Co., Ltd. Maintenance Center. Period:2013-2015.</li></ul>



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<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"><li>● Intelligent recognition method and device for abnormal state of locomotive engine and transmission mechanism. Patent code: ZL201010522633.0</li></ul>
<b>Important publications</b>	<ul style="list-style-type: none"><li>● <b>Li Xiaobo</b>, Qin Wen, Wang Quan. Study of Fault Diagnosis of Metro Vehicle High-power Inverters, Computer Simulation, 2016, pp: 229-233.</li><li>● Ji Ying; <b>Li Xiaobo</b>; Wu, Hao, Cai, Pengfei. Reliability study on control unit of metro train auxiliary inverter based on improved Monte Carlo algorithm[J]. Source: CICTP 2017, pp: 5001-5014.</li><li>● <b>Li Xiaobo</b>, Wu Hao, Xu Jiechen. Transient Analysis of Metro Vehicle Auxiliary Inverter during Pantograph and Catenary Off-line[J]. Journal of System Simulation, 2015, 27, pp: 2844-2851.</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● 2014 Outstanding Young Teacher in Shanghai Universities</li><li>● 2016 Shanghai Metro Education Award</li></ul>



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<b>Name</b>	WEN Yongpeng
<b>Post</b>	Associate Professor
<b>Academic career</b>	<p>1999-2003 Northeast University, B.E., Major in Mechanical Engineering</p> <p>2003-2006 Tongji University, M.E., Major in Mechanical Engineering</p> <p>2006-2009 Tongji University, Ph.D., Major in Mechanical Engineering</p>
<b>Employment</b>	<p>2009-2013 Shanghai University of Engineering Science, Lecturer</p> <p>2014-2015 Shanghai Metro Maintenance Company (Vehicle Branch), Engineer</p> <p>2015-2016 Central Michigan University, School of Engineering and Technology Visiting scholar</p> <p>2014- Shanghai University of Engineering Science, Associate Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Research on Dynamic Instability Mechanism of Typical Micro Devices under Multi-Field Coupling (PI). Funded by NSFS (No. 15ZR1419200). Period: 2015-2017.</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Research on key technologies of high-speed energy-saving turbine air compressor (PI). Funded by SGTP (No. 2018-16) Period: 2018-2020.</li> </ul>



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<p><b>Patents and proprietary rights</b></p>	<ul style="list-style-type: none"> <li>● A "3S" type spoke structure of urban rail transit vehicle wheels. Patent code: ZL201710585351.7.</li> <li>● A magnetorheological elastomer semi-active dynamic vibration absorber and its selection and installation method. Patent code: ZL201711133363.2.</li> <li>● A structure of dynamic vibration absorber with built-in metal vibrator for vibration and noise reduction of rail. Patent code: ZL201810549989.X.</li> </ul>
<p><b>Important publications</b></p>	<ul style="list-style-type: none"> <li>● <b>Yongpeng Wen</b>, Qian Sun, Yu Zou, et al. Study on the vibration suppression of a flexible carbody for urban railway vehicles with amagnetorheological elastomer-based dynamic vibration absorber [J]. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2020, 234(7): 749-764.</li> <li>● <b>Yongpeng Wen</b>, Daniel M. Chen*, Aizhong Wu, et, al. Vibration reduction and noise suppression for urban railways with a wheelset dynamic vibration absorber. [M]//Resilience and Sustainable Transportation Systems. Reston, VA: American Society of Civil Engineers, 2020: 553-563.</li> <li>● Qian Sun, <b>Yongpeng Wen</b>, Yu Zou. Study on the vibration suppression method of urban railway vehicles based on a composite dynamic vibration absorber[C]//MATEC Web of Conferences. EDP Sciences, 2019, 296: 01010.</li> <li>● Yu Zou, <b>Yongpeng Wen</b>, Qian Sun. Study on the urban rail transit sleeper spacing considering vehicle system[C]//MATEC Web of Conferences. EDP Sciences, 2019, 296: 01008.</li> </ul>
<p><b>Activity in professional associations within the last 5 years</b></p>	<ul style="list-style-type: none"> <li>● Editorial Board of the 9th Editorial Committee of "Vibration and Shock"</li> </ul>



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<b>Name</b>	HU Dingyu
<b>Post</b>	Associate Professor
<b>Academic career</b>	<p>2005-2009 Southwest Jiaotong University, B.E., Major in Vehicle Engineering (Rail Transit Vehicle)</p> <p>2006-2009 Hefei University of Technology, Ph.D., Major in Mechanical Manufacturing and Automation</p>
<b>Employment</b>	<p>2014-2018 Shanghai University of Engineering Science, Lecturer</p> <p>2018-2019 Shanghai Metro Maintenance Company (Vehicle Branch), Engineer</p> <p>2019- Shanghai University of Engineering Science, Associate Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>Noise source identification in interior spaces based on the compressive sensing and equivalent source method, Founded by National Natural Science Foundation of China (No. 51605274). Period: 2017-2019.</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>Reliability Analysis of air spring under operating conditions, Founded by Chengdu Southwest Jiaotong University TechnoPark Management Co., Ltd (J(16)GP-004), 2016-2017.</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>A rotating test platform for acoustic signal measurement. Patent code: CN201720554322.X</li> <li>A real-time monitoring device for track circuit fault. Patent code: CN206892275.U</li> </ul>



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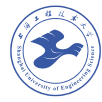
<b>Important publications</b>	<ul style="list-style-type: none"><li>● <b>Dingyu Hu</b>, Xinyue Liu, Yao Xiao, Yu Fang. Fast Sparse Reconstruction of Sound Field via Bayesian Compressive Sensing. <i>Journal of Vibration and Acoustics - Transactions of the ASME</i>, 2019, 141(4): 041017-9.</li><li>● <b>Dingyu Hu</b>, Hebing Li, Yu Hu, Yu Fang. Sound field reconstruction with sparse sampling and the equivalent source method, <i>Mechanical Systems and Signal Processing</i>, 2018, 108: 317-325.</li><li>● Yu Hu, <b>Dingyu Hu</b>, Yu Fang, Yue Xiao. Super resolution patch near-field acoustic holography via sparse Bayesian learning. <i>Journal of Vibration and shock</i>, 2018, 37(16): 104-110.</li><li>● <b>Dingyu Hu</b>, Zaiwei Li, Yu Fang. An equivalent source method for recovering and reconstructing the target sound field in a non-free field, <i>Acta Acustica</i>, 2017, 4: 465-475.</li><li>● <b>Hu Dingyu</b>, Bi Chuanxing, Zhang Yongbin, Geng Lin. Extension of planar nearfield acoustic holography for sound source identification in a noisy environment [J]. <i>Journal of Sound and Vibration</i>. 2014, 333(24): 6395-6404.</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● <b>Dingyu Hu</b> (4/5) “Research on fundamental theories of sound quality evaluation and vehicle interior noise control”, Shanghai Natural Science Award, 2019</li></ul>



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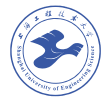
<b>Name</b>	PENG Lele
<b>Post</b>	Lecturer
<b>Academic career</b>	<p>2003-2007 Zhejiang sci-tech University, B.E. Major in Measurement &amp; control technology and instruments</p> <p>2008-2010 Donghua University, M. E. Major in Mechatronic Engineering</p> <p>2010-2015 Donghua University, Ph.D., Major in Doctor's degree of Mechanical Engineering</p>
<b>Employment</b>	2015- Shanghai University of Engineering Science, Lecturer
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Inversion Theory and Method of Track Structure Performance Parameters Based on Dynamic Dignosis, Funded by NSFC (No. 51478258). Period: 2015-2018. (CO-PI)</li> <li>● A study of mechanical vibration mechanism and active control method for the floating photovoltaic power generation. Funded by NSFC (No. 51907117), Period: 2020-2022. (PI)</li> <li>● Continuous Moving Measurement Theory and Method for Railway Track Settlement. Funded by NSFC (No. 51405287), Period: 2015-2017. (CO-PI)</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>● 2019 Annual Assessment of Shanghai Rail Transit Facility &amp; Equipment – Part 1: Rail Vehicle. Funded by Shanghai Shentong Metro Group Co. Ltd, Period: 2019-2020. (CO-PI)</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>● Rail alignment measurement method based on vision and inertial information fusion. Patent code: ZL201610349090.4</li> <li>● Rail wear measurement method based on dynamic template. Patent: code ZL201210261886.6</li> <li>● Solar power device and control method. Patent code: ZL201610530460.4</li> <li>● Micro-grid solar charging pile and charging method. Patent code: ZL201610554009.6</li> <li>● On-line monitoring device powered by solar energy. Patent code: ZL201610496627.7</li> </ul>





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<b>Important publications</b>	<ul style="list-style-type: none"><li>● <b>Lele Peng</b>, Shubin Zheng, Xiaodong Chai, Liming Li. A novel tangent error maximum power point tracking algorithm for photovoltaic system under fast multi-changing solar irradiances. <i>Applied Energy</i>. 2018, 210:303-316.</li><li>● <b>Peng Lele</b>, Sun Yize, Meng Zhuo, An improved model and parameters extraction for photovoltaic cells using only three state points at standard test condition, <i>Journal of power sources</i>, 2014, 248 (2014): 621-631.</li><li>● <b>Peng Lele</b>, Sun Yize, Meng Zhuo, Wang Yuling, Xu Yang, A new method for determining the characteristics of solar cells, <i>Journal of power sources</i>, 2013, 227 (2013): 131-136.</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● <b>Lele Peng (7/7)</b>. Key Measuring Technology of Rail Track Geometry Based on Fusion Technique of Computer Vision and Inertial Measurement. Shanghai Science and Technology Progress Award, 2017</li></ul>



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<b>Name</b>	YUAN Tianchen
<b>Post</b>	Lecturer
<b>Academic career</b>	<p>2007-2011 Shanghai University of Engineering Science, B.E., Major in Mechanical Engineering and Automation (Urban Rail Transit Vehicles)</p> <p>2011-2014 Shanghai University of Engineering Science, M.E., Major in Vehicle Engineering (Rail Transit Vehicle)</p> <p>2014-2017 Shanghai University, Ph.D., Major in General Mechanics and Mechanics Foundation</p>
<b>Employment</b>	<p>2017 - Shanghai University of Engineering Science, Lecturer</p> <p>2019- Nanjing University of Aeronautics and Astronautics, Postdoctoral Fellow</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>• Theoretical and experimental study on nonlinear vibration of a laminated circular plate harvester. Funded by NSFC (No. 11802170). Period: 2019-2021.</li> <li>• Harvesting and recovery method of track vibration energy based on the running of train. Funded by NSFC (No. 51575334). Period: 2016-2019.</li> <li>• Mechanism of track vibration energy harvesting based on the running of urban railway train. Funded by Shanghai Municipal Education Commission (No. 14ZZ158). Period: 2016-2019.</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>• Comprehensive performance test of pantograph for urban rail vehicles, funded by Chengdu Southwest Jiaotong University Science and technology management Park Co., Ltd. (No. (16)GP-005). Period: 2016/04~2017/07.</li> <li>• Pantograph fault test of rail vehicles, funded by Southwest Jiaotong University (No. (17)GD-019). Period: 2017/09~2017/12.</li> </ul>



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<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"><li>● An Energy Harvesting Device for Track Vertical Vibration. Patent code: ZL201310287792.0</li><li>● Analog Device and Method for Vertical Coupling Forces Between Wheel sets and Rails. Patent code: ZL201310288014.3</li></ul>
<b>Important publications</b>	<ul style="list-style-type: none"><li>● <b>Tian-Chen Yuan</b>, Jian Yang, Li-Qun Chen. Nonparametric Identification of Nonlinear Piezoelectric Mechanical Systems. ASME Journal of Applied Mechanics, 2018, 85: 111008.</li><li>● <b>Tian-Chen Yuan</b>, Jian Yang and Li-Qun Chen, Nonlinear characteristic of a circular composite plate energy harvester experiments and simulations, Nonlinear Dynamics, 2017, 90: 2495-2506.</li><li>● <b>Tian-Chen Yuan</b>, Jian Yang and Li-Qun Chen, Experimental identification of hardening and softening nonlinearity in circular laminated plates, International Journal of Non-Linear Mechanics, 2017, 95 (2017): 296-306.</li><li>● <b>Tian-Chen Yuan</b>, Jian Yang and Li-Qun Chen, Nonlinear dynamic of a circular piezoelectric plate for vibratory energy harvesting, Communications in Nonlinear Science and Numerical Simulation, 2018, 59: 651-656.</li><li>● <b>Tian-Chen Yuan</b>, Jian Yang, Ruigang Song, Xiaowei Liu, Vibration energy harvesting system for railroad safety based on running Vehicles, Smart Materials and Structures, 2014, 23(12): 125046.</li><li>● Song Ruigang, <b>Tian-Chen Yuan</b>, Jian Yang, Hao He, Simulation of braking energy recovery for the metro vehicles based on the traction experiment system, Simulation: Transactions of the Society for Modeling and Simulation International, 2017, 93(12): 1099-1112.</li><li>● <b>Tian-Chen Yuan</b>, Jian Yang, Ruigang Song, Xiaowei Liu, A reduced-scale experiment system for vehicle-rail vertical vibration. Journal of Vibration and Shock, 2016, 35(6): 115-120.</li></ul>



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<p><b>Activity in professional associations within the last 5 years</b></p>	<ul style="list-style-type: none"><li>● <b>Tian-Chen Yuan (3/7)</b>. Research and application of braking energy recovery technology based on on-board for urban rail vehicles, Third prize of Shanghai Science and Technology Progress Award, The Shanghai Municipal People's Government, 2018.</li></ul>
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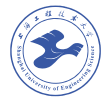
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<b>Name</b>	SHU Yanjun
<b>Post</b>	Lecturer
<b>Academic career</b>	<p>2003-2007 Beijing Institute of Technology, B.E., Major in Automation</p> <p>2007-2009 Beijing Institute of Technology, M. E. Major in Control Science and Engineering</p> <p>2009-2014 Northwestern Polytechnical University, Ph.D., Major in Navigation Guidance and Control</p>
<b>Employment</b>	<p>2014-2016 Shanghai Aerospace Technology Research Institute, Designer</p> <p>2016-2017 Shanghai JiaoTong University, Postdoctoral Fellow</p> <p>2018- Shanghai University of Engineering Science, Lecturer</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>Advanced backstepping sliding mode methods for the IGC of homing aircraft. Funded by Scientific Research Fund of Shanghai University of Engineering Science. Period: 2018.3-2020.3. (PI)</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>Prototype of Intelligent autonomous robot. Funded by Liman Intelligent Technology Co., Ltd.. Period: 2018.06-2019.12. (PI)</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Important publications</b>	<ul style="list-style-type: none"> <li><b>Yanjun Shu</b>, Yanhui Tong, Chaogang Yu. Robust Neural Tracking Control for Switched Nonaffine Stochastic Nonlinear Systems with Unknown Control Directions and Backlash-like Hysteresis. Journal of the Franklin Institute,</li> </ul>



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	<p>2020(357): 2791-2812 .</p> <ul style="list-style-type: none"><li>● <b>Yan jun Shu</b>, Yanhui Tong, Zhaomin Lv. Adaptive neural tracking control of stochastic nonaffine nonlinear switched systems with unknown backlash-like hysteresis. International Journal of Control, 2020. In Press.</li><li>● <b>Yan jun Shu</b>, Tang Shuo. Integrated Guidance and Control Backstepping Design for Blended Control Missile Based on NDO, Journal of Astronautics, 2013(1): 79-85</li><li>● <b>Yan jun Shu</b>, Tang Shuo. Discrete sliding-mode guidance laws design based on variable rate reaching law, Journal of Computer Applications, 2013(3): 878-881.</li><li>● <b>Yan jun Shu</b>, Tang Shuo. Guidance law design based on adaptive backstepping sliding mode control, Flight Dynamics, 2012(2):163-166.</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● None</li></ul>



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<b>Name</b>	ZHONG Qianwen
<b>Post</b>	Lecturer
<b>Academic career</b>	<p>2005-2009 Beijing Institute of Technology, B.E., Major in Vehicle Engineering (Rail Transit Vehicle)</p> <p>2010-2012 Donghua University, Major in Mechatronic Engineering</p> <p>2012-2018 Donghua University, Ph.D., Major in Mechanical Engineering</p>
<b>Employment</b>	2018- Shanghai University of Engineering Science Lecturer
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>• Dynamic Diagnostic Method and Theory of Track Diseases Based on Vibration and Vision Fusion, supported by National Natural Science Foundation of China (Grant No. 51975347), funded by NSFC. Period: 2020-2023, Co-PI.</li> <li>• Startup Foundation of Shanghai University of Engineering Science, Period:2019-2020, PI.</li> <li>• 2020.1-2020.12, Shanghai young teachers training program in 2019. Period: 2020, PI.</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>• Track state inspection system of pandero fast clip fastener, entrusted by enterprise. Period:2017-2019, Co-PI.</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>• A self-powered bearing monitoring device for rail vehicles with piezoelectric energy, No. CN 210083230 U.</li> <li>• A piezoelectric power generation structure, No. CN 210985966 U.</li> <li>• A cooling device for deep learning computer vision analysis mainframe, No. CN 210983275 U.</li> </ul>



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<b>Important publications</b>	<ul style="list-style-type: none"><li>● <b>Zhong, Q.W.</b>, S. Buckley, A. Vassallo, and Y.Z. Sun, Energy cost minimization through optimization of EV, home and workplace battery storage. Science China-Technological Sciences, 2018. 61(5): p. 761-773.</li><li>● <b>Zhong, Q.W.</b>, Y.Z. Sun, and L.L. Peng, A Novel Control Strategy on Multiple-Mode Application of Electric Vehicle in Distributed Photovoltaic Systems. Complexity, 2018.</li><li>● <b>Zhong, Q.W.</b>, R. Khalilpour, A. Vassallo, and Y.Z. Sun, A logic-based geometrical model for the next day operation of PV-battery systems. Journal of Energy Storage, 2016. 7: p. 181-194.</li><li>● Zheng, S., <b>Zhong, Q.</b>, Chai, X., Chen, X., &amp; Peng, L., A Novel Prediction Model for Car Body Vibration Acceleration Based on Correlation Analysis and Neural Networks. Journal of Advanced Transportation, 2018: p. 13.</li><li>● Zheng, S., <b>Zhong, Q.</b>, L. Peng, and X. Chai, A Simple Method of Residential Electricity Load Forecasting by Improved Bayesian Neural Networks. Mathematical Problems in Engineering, 2018. 2018: p. 16.</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● "Zhaoyi Innovation Cup" the 14th China graduate electronic design competition second prize, instructor.</li><li>● Shanghai University Students "Creation Cup" in 2019, Second prize, instructor.</li></ul>





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<b>Name</b>	WENG Lin
<b>Post</b>	Lecturer
<b>Academic career</b>	<p>1999-2003 Beijing Institute of Technology, B.E., Major in Mechanical Engineering</p> <p>2006-2009 Zhejiang University of Technology, M.E., Major in Chemical Process Equipment</p> <p>2009-2015 Shanghai Jiao Tong University, Ph.D., Major in Solid Mechanics</p>
<b>Employment</b>	<p>2015-2018 Shanghai Jiaotong University, Postdoctoral Fellow</p> <p>2018- Shanghai University of Science and Technology, Lecturer</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>Numerical and experimental investigation on the effects of inhomogeneous microstructure on strength and ductility of discontinuous reinforced metal matrix composites, Funded by NSFC (No. 51701118). Period: 2018-2020.</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>Research on Fault Detection System and Reliability Evaluation of Vehicle Bogie Bearing. Funded by Shanghai Shentong Metro Group Co., Ltd.. Period: 2017-2018. Co-PI</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>None</li> </ul>



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<b>Important publications</b>	<ul style="list-style-type: none"><li>● <b>Lin Weng</b>, Tongxiang Fan, Mao Wen, Yao Shen. Three-dimensional multi-particle FE model and effects of interface damage, particle size and morphology on tensile behavior of particle reinforced composites, <i>Composite Structures</i>, Volume 209, 2019, Pages 590-605.</li><li>● <b>Weng L</b>, Shen Y, Fan T X, Xu J Q. A Study of Interface Damage on Mechanical Properties of Particle-Reinforced Composites[J]. <i>Journal of the minerals, metals and materials(JOM)</i>, 2015, 1-6.</li><li>● Sun Z, Tian Z, <b>Weng L</b>, et al. The effect of thermal mismatch on the thermal conductance of Al/SiC and Cu/diamond composites[J]. <i>Journal of Applied Physics</i>, 2020, 127(4).</li><li>● Yang M, <b>Weng L</b>, Zhu H, et al. Simultaneously enhancing the strength, ductility and conductivity of copper matrix composites with graphene nanoribbons[J]. <i>Carbon</i>, 2017, 118: 250-260.</li><li>● Yang M, <b>Weng L</b>, Zhu H, et al. Leaf-like carbon nanotube-graphene nanoribbon hybrid reinforcements for enhanced load transfer in copper matrix composites[J]. <i>Scripta Materialia</i>, 2017, 138: 17-21.</li><li>● ZHANG Zhenguo, HOU Xiao, GAO Jie, <b>WENG Lin</b>. A method of generating two-dimensional mesoscopic model for hydrox-yl-terminated polybutadiene propellant with high particle volume fraction. <i>AMCS</i>, 2019, 36(10): 2302-2307.</li><li>● WEN Yongpeng, ZONG Zhixiang, <b>WENG Lin</b>, ZOU Yu. Vibration reduction method of multiple passive vibration absorbers for vehicle body in full speed range [J]. <i>Journal of Central South University</i>, 2020, 51(03): 853-862.</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● None</li></ul>



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<b>Name</b>	WEN Jing
<b>Post</b>	Lecturer
<b>Academic career</b>	2001-2005 Jilin University, B.E., Major in Mechanical Engineering  2005-2010 Jilin University, Ph.D., Major in Materials Processing Engineering
<b>Employment</b>	2016-2017 Shanghai Rail Traffic Equipment Co.,Ltd, Engineer  2011-2014 Zoomlion Shanghai, Engineer  2014-2018 AECC Commercial Aircraft Engine Co.,ltd Manager  2018- Shanghai University of Science and Technology, Lecturer
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"><li>● A study of mechanical vibration mechanism and active control method for the floating photovoltaic power generation. Funded by NSFC (No. 51907117), Period: 2020-2022. (Co-PI)</li></ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"><li>● 2019 Annual Assessment of Shanghai Rail Transit Facility &amp; Equipment – Part 1: Rail Vehicle. Funded by Shanghai Shentong Metro Group Co. Ltd, Period: 2019-2020. (PI)</li></ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"><li>● None</li></ul>



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<b>Important publications</b>	<ul style="list-style-type: none"><li>● <b>Wen Jing</b>, Jia Hongde, Wang Chunsheng, Quality Estimation System for Resistance Spot Welding of Stainless Steel, ISIJ International, 2019,59(11):2073-2076.</li><li>● <b>Wen Jing</b> and Jia Hongde. Real-time monitoring of dynamic signals and quality prediction for resistance spot welding, Electric welding machine, 2020, 50(5):102-106.</li><li>● <b>Wen Jing</b>, Wang Chunsheng, Xu Guocheng and Zhang Xiaoqi, Real Time Monitoring Weld Quality of Resistance Spot Welding for Stainless Steel, ISIJ International, 2009,49(4): 553-556.</li><li>● <b>Wen Jing</b>, Wang chunsheng, Xu guocheng and Cheng Guoli, Analysis on dynamic resistance in resistance spot welding of stainless steel. Transactions of the China welding institution, 2008, 29(11): 69-72.</li><li>● <b>Wen Jing</b>, Zhang Xudong, Xu Guocheng, Zhang Xiaoqi, Qiality estimation of resistance spot welding of stainless steel based on BP neural network, 2009, 18(3):16-20</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● None</li></ul>



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<b>Name</b>	WU Aizhong
<b>Post</b>	Lecturer
<b>Academic career</b>	<p>1999-2003 Yangtze Normal University, B.S., Major in Physics</p> <p>2006-2009 Liaoning University of Technology, M.E., Major in Mechatronic Engineering</p> <p>2009-2015 Shanghai Jiao Tong University, Ph.D., Major in Mechanical Engineering</p>
<b>Employment</b>	<p>2016-2017 Shanghai Institute of Special Equipment Inspection and Technical Research, R &amp; D Engineer</p> <p>2018- Shanghai University of Science and Technology, Lecturer</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Investigation on the Coupled Thermo-Mechanical Behaviors in Friction Braking of High-speed Elevator Safety Gear, funded by NSFC (No. 11602144). Period: 2017-2019.</li> <li>● Coupled Thermo-Mechanical Analysis and Inspection for the Friction Braking of High-speed Elevator Safety Gear, funded by GAQSIQ (No. 2015QK049). Period: 2015-2017.</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Million Times Accelerated Life Test for the Platform Screen Door Prototype of Shanghai Metro Line 13 (Phase II and Phase III Project). Period: 2016-2017.</li> <li>● Structural Strength and System Function Test for the Platform Screen Door Prototype of Shanghai Metro Line 10 (Phase II project). Period: 2017-2018.</li> </ul>



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<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"><li>● A Coupled Thermo-Mechanical Method for the Design and Simulation of Elevator Progressive Safety Gear Patent. Patent code: CN201610911386.0</li></ul>
<b>Important publications</b>	<ul style="list-style-type: none"><li>● <b>WU Aizhong</b>, Shi Xi, and Polycarpou A., “An Elastic-plastic Spherical Contact Model under Combined Normal and Tangential Loading,” ASME Journal of Applied Mechanics, 2012, 79, pp. 051001-1.</li><li>● <b>WU Aizhong</b> and Shi Xi, “Numerical Investigation of Adhesive Wear and Static Friction Based on the Ductile Fracture of Junction,” ASME Journal of Applied Mechanics, 2013, 80, pp. 041032.</li><li>● <b>WU Aizhong</b> and Shi Xi, “An Atomic Interaction-based Adhesive Contact Model for Shallow Nanoindentation and Nanoscratch,” Journal of adhesion science and Technology, 2013, 27, pp. 1840-1851.</li><li>● Shi Xi and <b>WU Aizhong</b>, “Effects of Load Configuration on Partial Slip Contact between an Elastic-plastic Sphere and a Rigid Flat,” Tribology International, 2013, 61, pp. 120-128.</li><li>● Shi Xi and <b>WU Aizhong</b>, “Thermomechanical modeling and transient analysis of sliding contacts between an elastic-plastic asperity and a rigid isothermal flat,” Tribology International, 2015, 81, pp. 53-60.</li><li>● <b>WU Aizhong</b> and Qian Hong, “Research on the Fretting Contact between an Elastic-Plastic Hemisphere and a Rigid Flat,” Chinese Journal of Mechanical Engineering, 2015, 51(5) pp. 105-113.</li><li>● <b>WU Aizhong</b>, WENG Lin, HU Dingyu and LIAO Aihua, “Micromechanical modelling for the damage accumulation and adhesive wear of metallic materials containing inclusions,” ASME Journal of Tribology, 2020 (10).</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● None</li></ul>



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<b>Name</b>	MENG Xiaoliang
<b>Post</b>	Lecturer
<b>Academic career</b>	<p>2003-2007 Tongji University, B.E., Major in Civil Engineering</p> <p>2007-2009 Tongji University, Post graduate student (Direct entry for the doctorate course in 2009), Major in Bridge and Tunnel Engineering</p> <p>2009-2014 Tongji University, Ph.D., Major in Bridge and Tunnel Engineering</p>
<b>Employment</b>	<p>2013-2015 The Hong Kong Polytechnic University, Research Assistant</p> <p>2015-2018 Shanghai Tunnel Engineering Co., Ltd., Senior Engineer</p> <p>2018- Shanghai University of Engineering Science, Lecturer</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>• Vortex-induced vibration analysis method of long span continuous bridge with span-wise varying geometry based on generalized self-excited force model, supported by the Open Fund of Key Laboratory of Transport Industry of Wind Resistant Technology for Bridge Structures (KLWRTBMC19-01), Period: 2019.06-2021.05. (PI)</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>• Development and test of air conditioner connector. Period: 2020.01-2020.12. (Co-PI)</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>• <b>MENG Xiaoliang.</b> The analysis system of full bridge aero-elastic model for long span bridges. Software registration No. 2020SR0806158.</li> </ul>



	<ul style="list-style-type: none"> <li>● <b>MENG Xiaoliang.</b> Temperature measurement and analysis system for track slabs. Software registration No. 2020SR0701113.</li> </ul>
<p><b>Important publications</b></p>	<ul style="list-style-type: none"> <li>● <b>MENG Xiaoliang, ZHU Ledong.</b> Effects of a cross diaphragm on the wind-resistant performance of twin parallel deck bridges [J]. Journal of Vibration and Shock, 2020, 39(16): 141-147. (in Chinese)</li> <li>● Le-Dong Zhu, <b>Xiao-Liang Meng</b>, Lin-Qing Du, Ming-Chang Ding. A Simplified Nonlinear Model of Vertical Vortex-Induced Force on Box Decks for Predicting Stable Amplitudes of Vortex-Induced Vibrations[J]. Engineering, 2017, 3: 854-862.</li> <li>● <b>Xiao-Liang Meng</b>, Le-Dong Zhu, You-Lin Xu, Zhen-Shan Guo. Imperfect Correlation of Vortex-induced Fluctuating Pressures and Vertical Forces on a Typical Flat Closed Box Deck [J]. ADVANCES IN STRUCTURAL ENGINEERING, 2015, 10: 1597-1618.</li> <li>● Le-Dong Zhu, <b>Xiao-Liang Meng</b>, Zhen-Shan Guo. Non-linear mathematical model of vortex-induced lift force on a flat closed-box bridge deck[J]. Journal of Wind Engineering and Industry Aerodynamics, 2013, 122: 69-82.</li> <li>● <b>MENG Xiao-liang</b>, GUO Zhen-shan, DING Quan-shun, ZHU Le-dong. Influence of wind fairing angle on vortex-induced vibrations and flutter performances of closed and semi-closed box decks [J]. ENGINEERING MECHANICS, 2011, 28(S1): 184-188+194. (in Chinese)</li> </ul>
<p><b>Activity in professional associations within the last 5 years</b></p>	<ul style="list-style-type: none"> <li>● General member of international society for intelligent construction (ISIC)</li> </ul>





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<b>Name</b>	HE Yu
<b>Post</b>	Lecturer
<b>Academic career</b>	<p>2007-2011 Shannxi University of Science &amp; Technology, B.E., Major in Mechanical Engineering</p> <p>2011-2013 Northeastern University, M. E. Major in Mechanical Engineering</p> <p>2014-2016 Northwestern University (USA) Ph.D. student Exchange</p> <p>2013-2018 Northeastern University, Ph.D. Major in Mechanical Engineering</p>
<b>Employment</b>	<p>2019- Shanghai University of Engineering Science, Lecturer</p> <p>2019- Luoyang Sunrui Ruber&amp;Plastic Science and Technology Co., Ltd, Postdoctoral Fellow</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>• Theoretical and experimental study on ultrasonic vibration assisted laser polishing, Funded by NSFC (No. 51875097). Period: 2018-2021.</li> <li>• Development and research of two parallel machine tools for ultrasonic vibration cutting, Funded by SUES (No. 0240-E3-0507-19-05134). Period: 2019-2021.</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>• Study on high frequency Vibration performance of rail transit fastener clip, Funded by Luoyang Sunrui Ruber&amp;Plastic Science and Technology Co., Ltd (No. 3219026008). Period: 2019-2021.</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>• None</li> </ul>



<p><b>Important publications</b></p>	<ul style="list-style-type: none"> <li>● <b>Yu He</b>, Ping Zou, Zhiwei Zhu, Wule Zhu, Youqiang Xing, Kornel Ehmann. Design and application of a flexure-based oscillation mechanism for surface texturing, <i>Journal of Manufacturing Process</i>, 2018, 32: 298-306.</li> <li>● <b>Yu He</b>, Ping Zou, Wu-Le Zhu, Kornel Ehmann. Ultrasonic elliptical vibration cutting of hard materials: simulation and experimental study, <i>The International Journal of Advanced Manufacturing Technology</i>, 2017, 91: 363-374.</li> <li>● <b>Yu He</b>, Zhongming Zhou, Ping Zou, Xiaogang Gao, Kornel F Ehmann, Study of ultrasonic vibration–assisted thread turning of Inconel 718 superalloy, <i>Advances in Mechanical Engineering</i>, 2019, Vol. 11(10) 1–12.</li> <li>● <b>Yu He</b>, Anbin Wang, Zhigang Liu, Xiaogang Gao, Damage Analysis of PR Type Fastener Clip for Vibration Reduction and Noise Suppression in Subway Circumstance, <i>Resilience and Sustainable Transportation Systems</i>. 2020</li> <li>● Wu-le Zhu, <b>Yu He</b>, Kornel Ehmann, Antonio Sanchez, Theoretical and experimental investigation on inclined ultrasonic elliptical vibration cutting of alumina ceramics, <i>Journal of Manufacturing Science and Engineering-Transactions of the ASME</i>, 2016, 138 (12), 121011.</li> <li>● Wu-le Zhu, <b>Yu He</b>, Kornel Ehmann, Bing-Feng Ju, Modeling of the effects of phase shift on cutting performance in elliptical vibration cutting, <i>The international Journal of Advanced Manufacturing Technology</i>, 2017 :1-13.</li> <li>● Wule Zhu, Zhiwei Zhu, <b>Yu He</b>, 'Development of a Novel 2-D Vibration-Assisted Compliant Cutting System for Surface Texturing', <i>IEEE-ASME Transactions on Mechatronics</i>, 2017 , PP (99) :1-1.</li> <li>● Ping Zou, Yingshuai Xu, <b>Yu He</b>, Experimental investigation of ultrasonic vibration assisted turning of 304 austenitic stainless steel, <i>Shock and Vibration</i>, 2015, 1-19.</li> <li>● Yingshuai Xu, Ping Zou, <b>Yu He</b>, Comparative experimental research in turning of 304 austenitic stainless steel with and without ultrasonic vibration, <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i>, 2016.</li> </ul>
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	<ul style="list-style-type: none"><li>● Xiaogang Gao, Anbin Wang, <b>Yu He</b>, Study on Rail Vibration and Corrugation of New Rail Guard in Small Radius Curve, Resilience and Sustainable Transportation Systems. 2020</li><li>● Xiaogang Gao, Anbin Wang, <b>Yu He</b>, Xiaohan Gu. Structural Improvement of the <math>\omega</math> -Type High-Speed Rail Clip Based on a Study of Its Failure Mechanism. Shock and Vibration, 2019(1): 1-14.</li><li>● Yingshuai Xu, Ping Zou, Xulei Yang, <b>Yu He</b>, Study on Ultrasonic Generator for Ultrasonically Assisted Machining. Advanced Materials Research, 2013, 797:320-325.</li><li>● Wule Zhu, Zhiwei Zhu, Yi Shi, Xiangfan Chen, <b>Yu He</b>, Kornel Ehmann, A novel piezoelectrically actuated 2-DoF compliant micro/nano-positioning stage with multi-level amplification, Review of Scientific Instruments, 2016, 87(10):823-142.</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● None</li></ul>



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<b>Name</b>	HUANG Shujun
<b>Post</b>	Lecturer
<b>Academic career</b>	<p>2006–2010 Hebei University of Technology, B.E., Major in Measurement Control Technology and Instruments</p> <p>2010-2013 Hebei University of Technology, M.E. Major in Instruments Science and Technology</p> <p>2014-2018 Hebei University of Technology, Ph.D. Major in Mechanical Engineering</p>
<b>Employment</b>	<p>2013-2014 Quality Control Department, Northern Altair Nanotechnologies Co., Ltd Manager</p> <p>2014 Northern Altair Nano- technologies Co., Ltd Manager</p> <p>2019- Shanghai University of Engineering Science, Lecturer</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"><li>● National Natural Science Foundation of China (No. 51675160). Theory and Technique of 3D Shape Measurement of Specular Objects Based on Direct Phase and Depth Relationship. Period: 2017.01- 2020.12</li><li>● Research Project for Graduate Innovation in Hebei Province: Techniques for Fast and Multiple Channels 3D Shape Measurement Based on Colour Fringe Projection. Period: 2015.06- 2016.06.</li><li>● Research Project for High-level Talents in Hebei University (NO: GCC2014049): Key Techniques of Fast and High Accurate 3D Shape Measurement Based on Parallel Multiple Colour Channels. Period: 2015.01-2017.12.</li></ul>



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<p><b>Industry collaborations over the last 5 years</b></p>	<ul style="list-style-type: none"> <li>• 2019 Annual Assessment of Shanghai Rail Transit Facility &amp; Equipment – Part 1: Rail Vehicle. Funded by Shanghai Shentong Metro Group Co. Ltd, Period: 2019-2020, (CO-PI)</li> </ul>
<p><b>Patents and proprietary rights</b></p>	<ul style="list-style-type: none"> <li>• A 3D fingerprint sensing system. NO. ZL201210338362.2.</li> <li>• Infrared and visible chip alignment method of a 2CCD camera. Application NO. 201410478588.1.</li> <li>• A non-contact acquisition method and device of 3D palmprint and hand shape. NO. ZL201210338363.7.</li> </ul>
<p><b>Important publications</b></p>	<ul style="list-style-type: none"> <li>• <b>Shujun Huang</b>, Yue Liu, Nan Gao, Zonghua Zhang, Feng Gao, Xiangqian Jiang. Distance calibration between reference plane and screen in direct phase measuring deflectometry. <i>Sensors</i>, 2018, 18(1): 144</li> <li>• <b>Shujun Huang</b>, Yue Liu, Xuefei Bai, Zhangying Wang, Zonghua Zhang. Pixel-to-pixel correspondence alignment method of a 2CCD camera by using absolute phase map. <i>Optical Engineering</i>, 2015, 54 (6), 064101; doi: 10.1117/1.OE.54.6.064101</li> <li>• <b>Shujun Huang</b>, Lili Xie, Zhangying Wang, Zonghua Zhang, Feng Gao, and Xiangqian Jiang Accurate projector calibration method by using an optical coaxial camera. <i>Applied Optics</i>, 2015, 54(4): 789-795</li> <li>• <b>Shujun Huang</b>, Zonghua Zhang, Yan Zhao, Jie Dai, Chao Chen, Yongjia Xu, E Zhang, and Lili Xie. 3D fingerprint imaging system based on full-field fringe projection profilometry. <i>Optics and Lasers in Engineering</i>, 2014, 52(1): 123-130</li> <li>• Zonghua Zhang, <b>Shujun Huang</b>, Yongjia Xu, Chao Chen, Yan Zhao, Nan Gao, and Yanjun Xiao. 3D palmprint and hand imaging system based on full-field composite color sinusoidal fringe projection technique. <i>Applied Optics</i>, 2013, 52(25): 6138-6145</li> <li>• Zonghua Zhang, <b>Shujun Huang</b>, Shasha Meng, Feng Gao, and Xiangqian Jiang. A simple, flexible and automatic 3D calibration method for a phase calculation-based fringe projection imaging system. <i>Optics Express</i>, 2013, 21(10): 12218-12227</li> </ul>



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<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● Excellent PhD Thesis, 2018</li></ul>
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<b>Name</b>	ZHU Wenliang
<b>Post</b>	Lecturer
<b>Academic career</b>	2001-2005 Henan Normal University, B.A.E., Major in Computer Science Education 2005-2008 Southweth Jiaotong University, M.E., Major in Vehicle Operation Engineering 2013-2019 Tongji University, Ph.D., Major in Vehicle Operation Engineering
<b>Employment</b>	2008-2013 Shanghai University of Engineering Science, School Counselor 2019- Shanghai University of Engineering Science, Lecturer
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"><li>● Research on Anti-skid Braking Control Strategy of the High-speed EUMs, supported by NSFC (No. U1534205), Period: 2015.01-2019.12</li></ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"><li>● Research on Development of Brake Force Simulation Software, supported by CRRC QINGDAO SIFANG CO. LTD, Period: 2014.12.15-2015.04.30</li></ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"><li>● An anti-skid control method of braking system for rolling stock. No.: CN201810812158.7.</li></ul>



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<b>Important publications</b>	<ul style="list-style-type: none"><li>● <b>ZHU Wenliang</b> , WU Mengling. Research on Braking Calculation of Electric Multiple Unit. Journal of Tongji University(Natural Science), 2017, Vol.45(01): 119-123+134</li><li>● <b>ZHU Wenliang</b>, WU Menling, TIAN Chun, et al. Integrated simulation platform analysis for braking System of Rolling Stock based on multi-discipline collaborative analysis[J].Journey of Traffic and Transportation Engineering, 2017,17(03):99-110.</li><li>● <b>W.L.Zhu</b>, X.Liao, C.Tian, M.L.Wu. Research on Anti-sliding Control for Rolling Stock Based on the Optimal Slip Rate. Proceedings of Third International Conference on Railway Technology: Research Development and Maintenance, April 5-8, 2016.</li><li>● <b>Wenliang ZHU</b>, Mengling WU. Modeling and Anti-skid Control of the Rail Vehicle Braking System. Proceedings of the 6th International Conference on Advanced Design and Manufacturing Engineering, July 20-23, 2016.</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● None</li></ul>





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<b>Name</b>	SHI Xuan
<b>Post</b>	Experimentalist
<b>Academic career</b>	<p>1993-1997 Dalian Railway University, B.E., Major in Mechanical Engineering and Automation</p> <p>2010-2013 Shanghai University, M.E., Major in Mechanical Engineering and Automation</p>
<b>Employment</b>	<p>1997-2001 Taiyuan locomotive &amp; rolling stock co. LTD Engineer</p> <p>2003-2008 Shanghai Metro Operation co. LTD Engineer</p> <p>2008- Shanghai University of Engineering Science, Experimentalist</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Fault Test of Pantograph of Rail Vehicle. Partner: Southwest Jiaotong University. Period: 2017-2018 (Co-PI)</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>● ‘silkworm’ make Songjiang more smoothly - Songjiang Tram Popular science video production and promotion. Funded by Science and Technology Commission of Songjiang 2017.05-2017.10. (Co-PI)</li> <li>● Interactive science popularization system for urban rail transit vehicles. Funded by Science and Technology Commission of Songjiang Period: 2019.01-2019.12 (Co-PI)</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>● An automatic induction fire extinguishing device, Patent code:</li> </ul>



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<b>Important publications</b>	<ul style="list-style-type: none"><li>● LUO Haoxin, SONG Ruigang, <b>SHI Xuan</b>, WANG He, CHEN Pei. An automatic induction fire extinguishing device., 2013</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● None</li></ul>



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<b>Name</b>	SONG Ruigang
<b>Post</b>	Experimentalist
<b>Academic career</b>	2001-2005 Zhengzhou University, B.E., Major in Process Equipment and Control  2011-2014 Shanghai Jiao Tong University, M.E., Major in Vehicle Engineering (Rail Transit Vehicle)  2016- Tongji University, Ph.D. candidate, Major in Vehicle Operation Engineering
<b>Employment</b>	2009 - Shanghai University of Engineering Science, Experimentalist
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"><li>● Production and Promotion of Popular Science Video of Trams in Songjiang, funded by Songjiang Science and Technology Commission. Period: 2017-2018.</li></ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"><li>● Fault Test of Pantograph of Rail Vehicle. Partner: Southwest Jiaotong University. Period: 2017-2018</li></ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"><li>● A Comfort Detection Device of Self Powered Urban Rail Train Based on LabVIEW. Patent code: ZL201620045390.9</li><li>● An Air Monitoring and Air Conditioning Control Device for Subway Station. Patent code: ZL 201920530101.8</li></ul>



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<b>Important publications</b>	<ul style="list-style-type: none"><li>● <b>Song Ruigang</b>, Yuan Tianchen, Yang Jian and He Hao, Simulation of braking energy recovery for the metro vehicles based on the traction experiment system, Simulation: Transactions of the Society for Modeling and Simulation International, 2017, 93(12): 1099–1112</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● 2018 Third Prize of Shanghai Science and Technology Progress Award</li><li>● 2019 Second Prize of Shanghai Science and Technology Progress Award</li></ul>



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<b>Name</b>	ZHU Lin
<b>Post</b>	Associate Professor
<b>Academic career</b>	<p>2003-2007 Beijing Jiaotong University, Bachelor's degree, Traffic and Transportation.</p> <p>2007-2013 Beijing Jiaotong University, Doctor's degree, Traffic and Transportation Planning and Management</p>
<b>Employment</b>	<p>2014-2019 Shanghai University of Engineering Science, Lecturer</p> <p>2020- Shanghai University of Engineering Science, Associate Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Research on mental workload and human performance of train dispatcher based on task analysis and multiple resource theory, supported by National Natural Science Foundation of China (No. 71701124). Period: 2018-2020. Funding: RMB160,000</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Dynamic supervision of Shanghai rail transit operation safety, Shanghai Transportation Commission ((18)GP-004), 20180301-20181231.</li> <li>● Comprehensive quality assessment of dispatcher, Shanghai Shentong Metro Group Co., LTD. ((20)GP-011), 20190701-20181231.</li> <li>● Investigation of rail transit system, Shanghai Shentong Metro Group Co., LTD. ((17)GD-021), 20160701-20161231.</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>● A system for accurately stopping a subway train platform. Patent code: ZL201910458951.6</li> <li>● A decompression seat specially designed for subway dispatchers. Patent code: ZL201920783784.8</li> <li>● A kind of subway automatic folding seat for specific people. Patent code: ZL201920784951.0</li> <li>● A subway driver fatigue monitoring and early warning device. Patent code: ZL201820833293.5</li> </ul>



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<b>Important publications</b>	<ul style="list-style-type: none"><li>● <b>Zhu Lin</b>, Liu Zhigang. Building and Simulation of a Modified Cell Transmission Model for an Urban Expressway. Proceedings of the 5th International Conference on Transportation Engineering, 2015.</li><li>● <b>ZHU Lin</b>, WU Qiang, LIU Zhigang, WANG Huasheng, ZHOU Ming. Simulation and Analysis System for the Impact of Metro Train Faults on Operations, Urban Rapid Rail Transit, 2017, 30(2): 113-119.</li><li>● GUO Jing, <b>ZHU Lin*</b>, LIU Zhigang, WANG Chunjie. Evaluation and Analysis of the Unplanned “Skip-stop” Scheme for Conventional Routes of Urban Rail Transit, Urban Rapid Rail Transit, 2018, 31(4): 119-124+132.</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● Shanghai Metro Award and Education Fund, 2018</li></ul>



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<b>Name</b>	WANG Guoqiang
<b>Post</b>	Professor
<b>Academic career</b>	<p>2000-2002 Shandong Normal University, B.S. Major in Mathematics and Applied Mathematics</p> <p>2002-2005 Shanghai University, M.S. Major in Operations Research and Cybernetics</p> <p>2005-2009 Shanghai University, Ph. D. Major in Operations Research and Cybernetics</p>
<b>Employment</b>	<p>2005-2008 Shanghai University of Engineering Science, Assistant Professor</p> <p>2008-2013 Shanghai University of Engineering Science, Associate Professor</p> <p>2010-2013 ShangHai Normal University, postdoctoral fellow</p> <p>2012-2013 Curtin University, Australia, Visiting scholar</p> <p>2014- Shanghai University of Engineering Science, Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Research on Optimization Models and Algorithms of Covariance Matrix Estimation in High Dimensional Data Statistical Inference, funded by NSFC (No. 11971302). Period: 2020-2023.</li> <li>● Interior-Point Algorithms for Nonlinear Symmetric Cone Programming and Applications in Optimal Control, funded by NSFC (No. 11471211). Period: 2015-2018.</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Big Data Real-Time Computing Management and Evaluation Analysis, funded by Shengke Jinshida Data System (China) Co., LTD. Period: 2018-2019.</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>● None</li> </ul>



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<b>Important publications</b>	<ul style="list-style-type: none"><li>● <b>G.Q. Wang</b>, L.C. Kong, J.Y. Tao, and G. Lesaja, Improved complexity analysis of full Nesterov-Todd step feasible interior-point method for symmetric optimization, <i>J. Optim. Theory Appl.</i>, 2015, 166(2): 588-604.</li><li>● <b>G.Q. Wang</b>, M.M. Li, X.J. Fan, and D.Z. Wang, New complexity analysis of a full-Newton step feasible interior-point algorithm for <math>P^*(k)</math>-LCP, 2015, <i>Optim. Lett.</i>, 9(6): 1105-1119.</li><li>● <b>G.Q. Wang</b>, Y.Q. Bai, X.Y. Gao, and D.Z. Wang, Improved complexity analysis of full Nesterov-Todd step interior-point methods for semidefinite optimization, <i>J. Optim. Theory Appl.</i>, 2015, 165(1): 242-262, 2015.</li><li>● <b>G.Q. Wang</b>, C.J. Yu, and K.L. Teo, A full-Newton step feasible interior-point algorithm for <math>P^*(k)</math>-linear complementarity problem, <i>J. Global Optim.</i>, 2014, 59(1): 81-99, 2014.</li><li>● <b>G.Q. Wang</b>, C.J. Yu and K.L. Teo, A full Nesterov-Todd step feasible interior-point method for convex quadratic optimization over symmetric cone, <i>Appl. Math. Comput.</i>, 2013, 221(15): 329-343, 2013.</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● Reviewer of <i>Mathematical Reviews</i> (No. 81435) since February 2012</li><li>● Director of the Mathematical Programming Branch of OR Society of China</li><li>● Director of the Mathematical Programming Branch of OR Society of China</li><li>● Director of Commerce Statistical Society of China</li><li>● Standing director of Shanghai Operational Research Society</li></ul>





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<b>Name</b>	ZHENG Zhongtuan
<b>Post</b>	Associate Professor
<b>Academic career</b>	<p>1998-2002 Nanjing Normal University, B.S. Major in Mathematics and Applied Mathematics</p> <p>2004-2006 Shanghai University, M.S. Major in Systems Analysis and Integration</p> <p>2006-2009 Shanghai University, Ph.D. Major in Operations Research and Control Theory</p>
<b>Employment</b>	<p>2002-2004 Nanjing University of Information Science and Technology Teaching Assistant</p> <p>2009-2014 Shanghai University of Engineering Science, Lecturer</p> <p>2013-2014 Nanyang Technological University, Visiting Research Fellow</p> <p>2014- Shanghai University of Engineering Science, Associate Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Research on Comprehensive Measurement and Optimization of Shanghai Ecological Civilization Construction Based on Panel Data, funded by National Statistical Science Research Project of China (No. 2018LY16). Period: 2018-2020.</li> <li>● Research on Comprehensive Measurement and Optimization of the Construction Level of Songjiang Ecological Civilization, funded by Shanghai Songjiang Science and Technology Commission (18SJRKT16). Period: 2018-2018.</li> <li>● Research on Evaluation and Optimization of New Urbanization Development Level of Songjiang District Based on "Smart Growth", funded by Shanghai Songjiang Science and Technology Commission (No. 17SJRKT40), Period: 2017-2017.</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Kingstar Big Data Real-time Calculation Management and Evaluation Analysis , funded by Shanghai Kingstar Software Technology Co., Ltd. (No. (19)SL-001), Period: 2018-2019.</li> </ul>



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<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"><li>• None</li></ul>
<b>Important publications</b>	<ul style="list-style-type: none"><li>• <b>Zhongtuan Zheng</b>, Gaoxi Xiao, Guoqiang Wang, Guanglin Zhang, Kaizhong Jiang, Mean first passage time of preferential random walks on complex networks with applications, <i>Mathematical Problems in Engineering</i>, 2017, No. 8217361, 14 pages</li><li>• Kaizhong Jiang, <b>Zhongtuan Zheng</b>, Lu Li, Topological structure matching measure between two graphs, <i>Computer-Aided Civil and Infrastructure Engineering</i>, 2017, 32 (6):515-524</li><li>• Guoqiang Wang, Zhongchen Wu, <b>Zhongtuan Zheng</b>, Xinzhong Cai, Complexity analysis of primal-dual interior-point methods for semidefinite optimization based on a parametric kernel function with a trigonometric barrier term, <i>Numerical Algebra, Control and Optimization</i>, 2015, 5(2):101-113</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>• Member of Chinese Association for Applied Statistics</li><li>• Member of Operations Research Society of Shanghai</li></ul>



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<b>Name</b>	WU Suichao
<b>Post</b>	Associate Professor
<b>Academic career</b>	2000-2004 Normal College of Qingdao University, B.S. Major in Applied Mathematics  2004-2008 Tongji University, Ph.D. Major in Pure Mathematics
<b>Employment</b>	2008-2012 Shanghai University of Engineering Science, Assistant Professor  2012- Shanghai University of Engineering Science, Associate Professor
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"><li>● Research on Driving Analysis of Global Climate Change by Planetary System Movement, funded by NSFC (No.41807437). Period: 2019-2021.</li><li>● MOOC of Multivariable Calculus, funded by Shanghai University of Engineering Science (No.m201821001). Period: 2018-2020.</li></ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"><li>● None</li></ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"><li>● None</li></ul>



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<p><b>Important publications</b></p>	<ul style="list-style-type: none"> <li>● <b>Suichao WU</b> , Jiachen YE . The First Cartan Invariant of <math>SL(3,3\sim n)</math> and <math>SU(3,3\sim n)</math>[J]. Chinese Annals of Mathematics, 2015.</li> <li>● <b>Suichao WU</b> , Jun Shen, Weiqin Yu. Linear algebra [M]. Tsinghua University Press, 2014</li> <li>● <b>Suichao WU</b> , Jiachen YE. The first Cartan invariant of <math>SP(4,3 \wedge n)</math> [J]. Acta Mathematical Physics: Series A, 2011, 31 (2): 466-477</li> <li>● <b>Suichao WU</b>, Jiachen YE. Cartan invariant matrix of finite symplectic group <math>sp(4,3)</math> [J]. Acta Mathematica Sinica, 2010 (06): 93-100</li> <li>● <b>Suichao WU</b>, Zhihong Jiang. Generalized restricted simple modules with trigonometric factorization Lie algebras [J]. Mathematical Yearbook a, 2008</li> <li>● <b>Suichao WU</b>, Zhihong Jiang , Yanmin Pu. Irreducible representations of Cartan type lie algebras [J]. Journal of Tongji University: Natural Science Edition, 2009, 37 (2): 281-284</li> <li>● <b>Suichao WU</b>, Jiachen YE. Weyl module decomposition model of symplectic group <math>sp(4,3)</math> [J]. China Science and technology information, 2008</li> <li>● Shi W , Kang L , <b>Wu S</b> . Bounds on Laplacian eigenvalues related to total and signed domination of graphs[J]. Czechoslovak Mathematical Journal, 2010, 60(2):315-325.</li> </ul>
<p><b>Activity in professional associations within the last 5 years</b></p>	<ul style="list-style-type: none"> <li>● The first prize of 2015 National Mathematics micro course teaching design competition in East China</li> <li>● The 11th excellent young teacher at Shanghai University of Engineering Science</li> </ul>



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<b>Name</b>	XU Hongxia
<b>Post</b>	Associate Professor
<b>Academic career</b>	1988-1992 Jiangsu Normal University, B.S. Major in Physics 1994-1997 Southeast University, M.S. Major in Physics
<b>Employment</b>	1992-1994 Jiangsu Normal University, Teaching Assistant 1997-2000 Shenyang Aerospace University, Assistant Professor 2000-2003 Shenyang Aerospace University, Associate Professor 2004- Shanghai University of Engineering Science, Associate Professor
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Study on the processing of laser holographic interference fringes based on computer image technology , funded by Shanghai University of Engineering Science. Period: 2001.01~2002.12</li> <li>● Numerical simulation of stress-strain response and shear failure characteristics of materials under high strain rate loading, funded by Shanghai Municipal Education Commission , Period: 2005.12~2007.12</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Coupling interface design of optical wave-microwave waveform conversion. Funded by Shanghai Advanced Research Institute, Chinese Academy of Sciences (No. SL-006). Period: 2020-2020</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>● <b>XU Hongxia</b>, JI Tao, et al. A low radiation electromagnetic induction lamp. ZL 20112231963.4</li> </ul>
<b>Important publications</b>	<ul style="list-style-type: none"> <li>● <b>XU Hong-xia</b>, YAN Hai-qing. A Study on Computer-aided Experiment of Holography [J]. Journal of Jiangsu Normal University(Natural Science Edition), 2002, 20(2):31-33.</li> <li>● <b>XU Hong-xia</b>, ZHANG Xiu-li. Green Enviroment-friendly Materials for 21 Century—Magnesium Alloys[J]. Journal of Shanghai University of Engineering Science, 2007, 21(004):322-325.</li> <li>● ZHANG Xu-li, <b>XU Hong-xia</b>, LI De-hui. Effect of Aging on Microstructure and Property[J]. Hot Working Technology, 2007, 36(024):14-16.</li> </ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"> <li>● 2003 Teaching Achievement Award of Shenyang Institute of Aeronautical Engineer</li> <li>● 2006 excellent young teacher at Shanghai University of Engineering Science</li> </ul>



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<b>Name</b>	CHEN Guanglong
<b>Post</b>	Associate Professor
<b>Academic career</b>	<p>1994-1996 Anhui Institute of Education, B.S. Major in Physics</p> <p>2002-2005 East China Normal University, M.S. Major in Optics</p> <p>2005-2008 Chinese Academy of Sciences, Ph.D. Major in Optics</p>
<b>Employment</b>	<p>2008-2009 Pohang University of Science and Technology, Korea Postdoctoral Fellowship</p> <p>2009-2012 Shanghai University of Engineering Science, Assistant Professor</p> <p>2012- Shanghai University of Engineering Science, Associate Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Study on cluster size in supersonic gas jet under a high backing pressure, funded by Natural Science Foundation of Shanghai, China (No. 11ZR1414500). Period: 2011-2014</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Coupling interface design of optical wave-microwave waveform conversion. Funded by Shanghai Advanced Research Institute, Chinese Academy of Sciences (No. SL-006). Period: 2020-2020</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>● None</li> </ul>
<b>Important publications</b>	<ul style="list-style-type: none"> <li>● <b>Guanglong Chen</b>, A. S. Boldarev, Xiaotao Geng, Xingjia Li, Yunjiu Cao, Lili Wang, and Dong Eon Kim, The radial dimension of a supersonic jet expansion from conical nozzle, AIP ADVANCES 2016, 6:115015</li> <li>● <b>Guanglong Chen</b>, A. S. Boldarev, Xingjia Li, Yunjiu Cao, Jianping He, and Dong Eon Kim, Simulations of a polar molecule (sulfur dioxide) in a supersonic jet, JOURNAL OF APPLIED PHYSICS, 2018, 124:035902</li> <li>● Xiaotao Geng, Shiyang Zhong, <b>Guanglong Chen</b>, Weijun Ling, Xinkui He, Zhiyi Wei, and Dong eon Kim. Enhancement of high-order harmonics in a plasma waveguide formed in clustered Ar gas, OPTICS EXPRESS, 2018, 26:3068-3074</li> </ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"> <li>● Famous Teacher of Shanghai University of Engineering Science, 2012</li> </ul>



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<b>Name</b>	Zhang Xiuli
<b>Post Title</b>	Professor
<b>Academic career</b>	<p>1996-2000 Northeastern University, B.S. Major in Applied Physics.</p> <p>2001-2003 Northeastern University, M.S. Major in Material physics and chemistry</p> <p>2009-2012 East China University of Science and Technology, Ph.D. Major in Polymer chemistry and Physics</p>
<b>Employment</b>	<p>2004-2011 Shanghai University of Engineering Science, Assistant Professor</p> <p>2012-2019 Shanghai University of Engineering Science, Associate Professor</p> <p>2020- Shanghai University of Engineering Science, Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Research on the ferroelectric domain switching evolution and switching dynamics for organic ferroelectric ultrathin films at molecular scale, funded by NSFC (No. 51503121). Period: 2016-2018</li> <li>● Study on failure mechanism and performance improvement of flexible ferroelectric thin films, funded by Shanghai Science and Technology Commission (No. 13ZR1418200). Period: 2013-2016</li> <li>● Research on flexible ferroelectric field effect transistor and its related logic circuit based on total solution method, funded by Shanghai Municipal Education Commission (No. 15ZZ093) Period: 2015-2017</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Research on the new process transformation and development of kresoxim and other products (No. D-6000-11-0079-(11) HG-004. Period: 2011.09-2014.09. Funding: RMB 1800,000</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>● <b>Zhang Xiuli.</b> An organic ferroelectric thin film capacitor with wire electrode structure and its preparation method, Patent Code: 201910680720.X</li> <li>● <b>Zhang Xiuli.</b> A method to improve the performance of ferroelectric thin film capacitor, Patent Code: 201910680727.1</li> </ul>



<p><b>Important Publications</b></p>	<ul style="list-style-type: none"><li>● <b>Zhang Xiuli*</b>; Liu Changli; Li Long; Yuan Haidong; Xu Haisheng; Switching dynamics enhancement in P(VDF-TrFE) copolymer ultrathin films with symmetric organic film electrodes, <i>Organic Electronics</i>, 2019, 66: 81-85.<ul style="list-style-type: none"><li>● Li Long; <b>Zhang Xiuli*</b>; Chen Hongzhen; Sun Xiaohui; Yuan Haidong; Xu Haisheng; Modeling of structure effect for ferroelectric capacitor based on poly(vinylidene fluoride-trifluoroethylene) ultrathin films, <i>Polymers</i>, 2017, 10(6): polym10010006.</li><li>● <b>Zhang Xiuli*</b>, Du Xiao Li, Ji Xin, Liu Changli, Xu Haisheng, High temperature-dependent imprint and switching mechanism of poly(vinylidene fluoride-trifluoroethylene) copolymer ultrathin films with electroactive interlayers. <i>Appl. Phys. Lett.</i>, 2015, 106: 022906.</li></ul></li><li>● <b>Zhang Xiuli</b>, Du Xiaoli, Hou Ying, Lü Zhaoyue, Xu Haisheng* , Temperature dependence of imprint mechanism in poly(vinylidene fluoride-trifluoroethylene) copolymer ultrathin films. <i>Appl. Phys. Lett.</i>, 2014,104:103505.</li><li>● Du Xiaoli, <b>Zhang Xiuli</b>, Liu Hongbo, Ji Xin. Study of ferroelectric switching and fatigue behaviors in poly(vinylidene fluoride-trifluoroethylene) copolymer nano-films. <i>Acta Physica Sinica</i>, 2015, 64(16):167701-1-9.<ul style="list-style-type: none"><li>● Du Xiaoli; Zhao Manping; Chen Guanglong; <b>Zhang Xiuli*</b>; Thickness dependence of ferroelectric properties for ferroelectric random access memory based on poly(vinylidene fluoride-trifluoroethylene) ultrathin films, <i>Ferroelectrics</i>, 2015, 488: 147-153.</li><li>● Du Xiaoli; Zhao Manping; Chen Guanglong; Ji Xin; <b>Zhang Xiuli*</b>; The effect of imprint and disturb on switching process based on poly(vinylidene fluoride-trifluoroethylene) copolymer thin films, <i>Ferroelectrics</i>, 2016, 491: 1-7.</li></ul></li><li>● <b>Zhang Xiuli</b>, Hou Ying, Zhang Yanni, Xu Haisheng*, The effect of electroactive interlayer on the ferroelectric properties in poly(vinylidene fluoride-trifluoroethylene) copolymer ultrathin films. <i>J. Appl. Phys.</i>, 2012,112:074111.<ul style="list-style-type: none"><li>● <b>Zhang Xiuli*</b>, Xu Haisheng*, Zhang Yanni , Temperature dependence of coercive field and fatigue in poly(vinylidene fluoride-trifluoroethylene) copolymer ultra-thin films. <i>J. Phys. D: Appl. Phys.</i>, 2011, 44: 155501.</li><li>● <b>Zhang Xiuli</b>, Dong Wenbin , Xu Haisheng*, Structural and ferroelectric behaviours in blends of vinylidene fluoride oligomer and poly(vinylidene fluoride-trifluoroethylene) copolymer thin film. <i>J. Phys. D: Appl. Phys.</i>, 2011, 44:435304. (SCI Ⅱ区)</li></ul></li><li>● Hou Ying, <b>Zhang Xiuli</b>, Zhang Yuan, Xu Guoqiang, Xu Haisheng*, Modeling of ferroelectric switching process in poly(vinylidene fluoride-trifluoroethylene) copolymer ultrathin films with electroactive interlayers. <i>J. Appl. Phys.</i>, 2012, 111:024504.<ul style="list-style-type: none"><li>● Hou Ying, <b>Zhang Xiuli</b>, Zhang Yuan, Xu Guoqiang, Xu Haisheng*, High-temperature ferroelectric behaviors of poly(vinylidene fluoride-trifluoroethylene) copolymer ultrathin films with electroactive interlayers. <i>J. Appl. Phys.</i>, 2012, 111: 064506.</li></ul></li></ul>
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	<ul style="list-style-type: none"><li>● Xu Haisheng*, Zhang Yanni, <b>Zhang Xiuli</b>, Ma Yipei, The role of proton for the effect of interlayer on ferroelectric behavior of poly (vinylidene fluoridetrifluoroethylene) copolymer ultrathin films. <i>Ferroelectrics</i>, 2011, 413: 46–53 .</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● 2013 “Famous Teacher” of Shanghai University of Engineering Science</li><li>● Excellent instructor of “National Physics Competition for College Students” of Shanghai University of Engineering Science in 2012</li><li>● Excellent instructor of “National Physics Competition for College Students” of Shanghai University of Engineering Science in 2010</li></ul>



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<b>Name</b>	QIN Liguo
<b>Post Title</b>	Associate Professor
<b>Academic career</b>	<p>2002-2006 Liaocheng University, B.S. Major in Physics</p> <p>2006-2012 University of Shanghai, Ph.D. Major in Radio Physics</p>
<b>Employment</b>	<p>2012-2016 Chinese Academy of Sciences Assistant research fellow</p> <p>2016-2017 Qingdao University of Technology Assistant Professor</p> <p>2018 Qingdao University of Technology Associate Professor</p> <p>2018- Shanghai University of Engineering Science, Associate Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Application of opto-electromechanical system in quantum information, funded by NSFC (No. 11347147). Period: 2014-2014 (PI)</li> <li>● The studies of the nonlinear optical properties at the few-photon level based on the electrically controlled quantum interference, funded by NSFC (No. 61605225). Period: 2016-2019 (PI)</li> <li>● An arbitrary waveform electro-optic modulator based on quantum interference, funded by Shanghai Science and Technology Commission (No. 16ZR1448400). Period: 2016-2019. (PI)</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Coupling interface design of optical wave-microwave waveform conversion. Funded by Shanghai Advanced Research Institute, Chinese Academy of Sciences ((No. SL-006).). Period: 2020-2020 (PI)</li> </ul>



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<p><b>Patents and proprietary rights</b></p>	<ul style="list-style-type: none"> <li>● An opto-electric hybrid system of realizing quantum coherence , Patent code: ZL201410836038.2, Applicant: Shanghai Institute of advanced research, Chinese Academy of Sciences</li> <li>● An arbitrary waveform electro-optic modulator based on quantum interference. Patent code: ZL201510477100.8, Applicant: Shanghai Institute of advanced research, Chinese Academy of Sciences</li> <li>● The overall control system of furniture and intelligent single products after hardware implantation based on Arduino open source platform using AI + IOT Technology , Patent code: 2020SR0444281 Applicant: Shanghai Institute of advanced research, Chinese Academy of Sciences</li> </ul>
<p><b>Important Publications</b></p>	<ul style="list-style-type: none"> <li>● <b>Li-Guo Qin*</b>, Zhong-Yang Wang, Hong-Yang Ma, Chao-Min Zhang, Li Ren, Li-Li Wang, and Shang-Qing Gong, Optomechanical entanglement switch in the hybrid opto-electromechanical device, Journal of the Optical Society of America B, 36(6),1544-1550 (2019).</li> <li>● <b>Li-Guo Qin*</b>, Zhong-Yang Wang, Shi-Chao Wu, Shang-Qing Gong, Hong-Yang Ma, and Jun Jing, Vacuum-induced quantum memory in an opto-electromechanical system, Optics Communications 410 ,102–107 (2018).</li> <li>● <b>Li-Guo Qin*</b>, Zhong-Yang Wang*, Hong-Yang Ma, and Shang-Qing Gong, Electro-optic waveform interconnect based on quantum interference, Photonics Research , 5( 5), 481-487 (2017)</li> <li>● <b>Li-Guo Qin*</b>, Zhong-Yang Wang, Gong-Wei Lin, Jing-Yun Zhao,and Shang-Qing Gong*, Electrically Controlled Quantum Memories with a Cavity and Electro-mechanical System, IEEE Journal of Quantum Electronics 53(3) 9300106 (2016).</li> </ul>
<p><b>Activity in professional associations within the last 5 years</b></p>	<ul style="list-style-type: none"> <li>● Member of Shanghai Education Evaluation Association</li> <li>● Member of Shandong Optical Engineering Society</li> <li>● Reviewer for Journal of Physics A: Mathematical and Theoretical, Scientific Reports, Optics Express and International Journal of Theoretical Physics, etc.</li> </ul>



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<b>Name</b>	Zhao Dejun
<b>Post</b>	Professor
<b>Academic career</b>	<p>1988-1990 Zhejiang Institute of Education, B.A.E. Major in Mathematics Education</p> <p>2001-2004 Zhejiang University, M.S. Major in Mathematics</p>
<b>Employment</b>	<p>1983-1988 Huishan middle school, Xinchang, Zhejiang Province, Middle school mathematics teacher</p> <p>1990-1997 Chengtan senior high school, Xinchang, Zhejiang Province, Middle school mathematics teacher</p> <p>1997-2001 Shaoxing University, Assistant Professor</p> <p>2001-2007 Shaoxing University, Associate Professor</p> <p>2007-2012 Shanghai University of Engineering Science, Associate Professor</p> <p>2012- Shanghai University of Engineering Science, Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Research on the best approximation problems based on the geometry of Banach space, funded by NSFC (No.11671252). Period: 2017.01-2020.12.</li> <li>● Key course construction project of Shanghai Education Commission: Linear algebra, funded by Shanghai Municipal Education Commission (s201521001). Period: 2015.08-2017.06.</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>● None</li> </ul>



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<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"><li>• None</li></ul>
<b>Important publications</b>	<ul style="list-style-type: none"><li>• <b>Dejun Zhao</b>, Some sharp estimates of the constants of Landau and Lebesgue, <i>Journal of Mathematical Analysis and Applications</i>, 2009(349):68-73.</li><li>• <b>Dejun Zhao</b>, S. P. Zhou, Turan type inequality for the derivative of real algebraic polynomials which have complex zeros, <i>Scientific Research Publishing(SRP), Inc.,USA</i>, 2012(5): 76-80.</li><li>• <b>Dejun Zhao</b>, Songping Zhou, Dansheng Yu and Jianli Wang, Weighted Turan type inequality for rational functions with prescribed poles, <i>J. Math. Ineq.</i> 8(2) (2014), 251–265.</li><li>• Meiling Wang, Dansheng Yu, <b>Dejun Zhao</b>, On weighted <math>L_p</math>-approximation by weighted Bernstein-Durrmeyer operators, <i>Analysis in Theory and Applications</i>, 34(1) (2018): 1-16.</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>• The second prize of Shanghai teaching achievement award (participation), 2014</li><li>• One first prize of teaching achievement of Shanghai University of engineering and Technology (participation), 2014</li><li>• The third prize of teaching achievement of Shanghai University of engineering and Technology (participation), 2017</li></ul>



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<b>Name</b>	LI Mingming
<b>Post</b>	Associate Professor
<b>Academic career</b>	<p>1996-2000 Shanghai University, B.S. Major in Mathematics</p> <p>2001-2005 ShangHai University, M.S. Major in Mathematics</p>
<b>Employment</b>	<p>2006-2010 Shanghai University of Engineering Science, Assistant Professor</p> <p>2010- Shanghai University of Engineering Science, Associate Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Research on theory of isometries and their perturbations between Banach spaces, funded by NSFC (No.11771278). Period: 2018.01-2021.12</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Research on Evaluation of Colleges and Universities in the Service work level of Wisdom labour union, School trade union, 2020</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>● None</li> </ul>
<b>Important publications</b>	<ul style="list-style-type: none"> <li>● G.Q. Wang*, <b>M.M. Li</b>, Y.J. Yue and X.Z. Cai, New complexity analysis of interior-point methods for the Cartesian <math>P^*(k)</math>-SCLCP, J. Inequal. Appl., 2013(1), pp. 285 (23), 2013.</li> <li>● G.Q. Wang*, <b>M.M. Li</b>, X.J. Fan and B.C. Wang, New complexity analysis of a full-Newton step feasible interior-point algorithm for <math>P^*(k)</math>-LCP, Submitted to Optim.Lett., 2013.</li> <li>● Guoqiang Wang, Xiaojing Fan and <b>Mingming Li</b>. Primal-dual interior-point methods for convex quadratic optimization over symmetric cone. Numerical Algorithms, 2012.</li> <li>● <b>Mingming Li</b>, Liansheng Zhang and Yumei Liang. A filled function method with one parameter for integer programming. Operations Research Transactions, 12(2): 73-83, 2008.</li> </ul>



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	<ul style="list-style-type: none"><li>● <b>Mingming Li</b>, Youlin and Liansheng Zhang. A new filled function method for integer programming. Journal of Computational Mathematics, 24(1) : 25-32, 2006.</li><li>● Yumei Liang , <b>Mingming Li</b> and Dongxuan Chi. A filled function method with one parameter for global optimization. Operations Research Transactions, 13(4): 101-108 , 2009.</li><li>● Yongjian Yang, Xuewu Du, <b>Mingming Li</b>. A integral filter algorithm for unconstrained global optimization. Applied Mathematics and Computation, 184(2): 173-180, 2007.</li><li>● Xuewu Du, Yongjian Yang and <b>Mingming Li</b>. Further studies on the Hestenes-Powell augmented Lagrangian function for equality constraints in nonlinear programming problems. Operations Research Transactions, 10(1): 38-46, 2006.</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● Advanced collective of school trade union</li></ul>



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<b>Name</b>	WU Yuandong
<b>Post</b>	Associate Professor
<b>Academic career</b>	<p>1998-2002 Technische Universität Dresden, B.S. Major in Inorganic chemistry</p> <p>2003-2008 Technische Universität Dresden, M.S. Major in Inorganic chemistry</p> <p>2009-2011 Technische Universität Dresden, Ph.D. Major in Inorganic chemistry</p>
<b>Employment</b>	<p>2003-2011 Technische Universität Dresden Postdoctoral Fellow</p> <p>2011-2012 University of Applied Sciences Kiel, Postdoctoral fellow</p> <p>2013- Shanghai University of Engineering Science, Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"><li>● Study on the location reaction of 1,3-disubstituted aromatic hydrocarbons, funded by Shanghai Municipal Education Commission, Period: 2012.01-2013.12</li><li>● Polishing fluid and polishing process demonstration line for LED sapphire substrate, funded by Shanghai Science and Technology Commission, Period: 2013.12-2014.09</li><li>● Design, synthesis, performance modification and anticancer activity of phosphorus containing dendrimer nanoplatfoms, funded by NSFC, Period: 2016.02-2018.02</li><li>● Application of MR technology in metabolomics, funded by Shanghai Municipal Education Commission, Period: 2017.09-2018.07</li></ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"><li>● None</li></ul>





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<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"><li>• None</li></ul>
<b>Important publications</b>	<ul style="list-style-type: none"><li>• <b>Y. D. Wu</b>, W. Bensch, Synthesis, crystal structures, and optical properties of NaCdPnS<sub>3</sub> (Pn = As, Sb) J. Alloys Compd., 511, 35-40, 2012</li><li>• <b>Y. D. Wu</b>, W Bensch, K<sub>3</sub>BiAs<sub>6</sub>Se<sub>12</sub>: A two-dimensional bismuth selenoarsenate containing crown-shaped anions [As<sub>3</sub>Se<sub>6</sub>]<sup>3-</sup>. J. Alloys Compd., 509, 4452-4456, 2011</li><li>• <b>Y. D. Wu</b>, W Bensch, Structural diversity of rare earth and transition metal thiophosphates. CrystEngComm, 12, 1003-1015, 2010</li><li>• <b>Y. D. Wu</b>, W. Bensch, K<sub>2</sub>Ln<sub>2</sub>As<sub>2</sub>Se<sub>9</sub> (Ln = Sm, Gd): the first quaternary rare-earth selenoarsenate compounds with a 3d framework containing chairlike As<sub>2</sub>Se<sub>4</sub> units. Inorg. Chem. 48, 2729-2731, 2009</li><li>• <b>Y. D. Wu</b>, W. Bensch, syntheses, structures, and spectroscopic properties of K<sub>9</sub>Nd[PS<sub>4</sub>]<sub>4</sub>, K<sub>3</sub>Nd[PS<sub>4</sub>]<sub>2</sub>, Cs<sub>3</sub>Nd[PS<sub>4</sub>]<sub>2</sub>, and K<sub>3</sub>Nd<sub>3</sub>[PS<sub>4</sub>]<sub>4</sub>. Inorg. Chem. 47, 7523-7534, 2008</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>• None</li></ul>



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<b>Name</b>	CHEN Qiang
<b>Post</b>	Professor
<b>Academic career</b>	<p>1982-1986 University of Yangtzh, B.S. Major in Geophysics</p> <p>1994-1997 University of Yangtzh, M.S. Major in Geophysics</p> <p>1998-2002 Tongji University, Ph.D. Major in Geophysics</p>
<b>Employment</b>	<p>1986-1998 CNPC -China National Petroleum Corporation Engineer</p> <p>1998-2002 China Petrochemical Corporation (Sinopec Group) Engineer</p> <p>2002-2004 East China Normal University Associate Professor</p> <p>2004- Shanghai University of Engineering Science Professor</p>
<b>Research and development projects over the last 5years</b>	<ul style="list-style-type: none"> <li>Multi source fusion UAV navigation key technology and bridge detection application demonstration, funded by Shanghai Science and Technology Commission(No.18-). Period: 2018-2021.</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>Research and development of urban underground pipe network integrated service system and its trajectory detection system Period: 2017-2022</li> </ul>



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<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"><li>● <b>CHEN Qiang</b>, patent for invention, Petroleum exploration drill bit system and method with rock sheet identification function, ZL2016110456043.</li><li>● <b>CHEN Qiang</b>, patent for invention, Remote alarm-based child safety seat detection, reminder and alarm system and method, ZL 2017 1 0170489. 0</li><li>● <b>CHEN Qiang</b>, patent for invention, A child safety seat detection, reminder and alarm system and method, ZL 2017 1 0170450. 9</li></ul>
<b>Important publications</b>	<ul style="list-style-type: none"><li>● YUAN Tong, <b>CHEN Qiang</b>, ZHOU Ling. Design and implementation of urban underground pipe network information system based on Baidu maps API[J]. Intelligent Computer and Applications, 2019, 9(1): 69-76.</li><li>● YANG Jiao, <b>CHEN Qiang</b>, ZHOU Ling, SUN Haijing. Improved TLD target tracking algorithm based on LBP [J]. Transducer and Microsystem Technologies, 2019, 38(11): 136-138+143.</li><li>● ZHOU Ling, <b>CHEN Qiang</b>. Research on Augmented Reality System of Urban Underground Pipe Network [J]. Computer Engineering and Applications, 2020, 56(01): 251-256.</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● Member of new Engineering Education Professional Committee of National Computer Basic Education Research Association.</li><li>● Outstanding Instructor Award in the 14th Postgraduate Electronic Design Competition.</li></ul>



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<b>Name</b>	HU Haomin
<b>Post</b>	Associate Professor
<b>Academic career</b>	<p>1996.09-2000.06      Zhejiang Normal University, Bachelor of Education</p> <p>2000.09-2003.06      Shanghai Normal University, Master's Degree in Computer Applications</p>
<b>Employment</b>	<p>Since July, 2003      Computing Center of Shanghai University of Engineering Science, Faculty Member</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>• None</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>• Design of control software for tire carrier CNC shaping control system</li> </ul>
<b>Patents and proprietary rights</b>	<p>Software copyright:</p> <ul style="list-style-type: none"> <li>• ICDataSpyer Industrial control data communication and monitoring system</li> <li>• Intrain Intelligent training system for computer-based courses</li> <li>• WebSign Information management system for training services</li> <li>• CreditASS Enterprise credit risk assessment system</li> </ul>
<b>Important publications</b>	<ul style="list-style-type: none"> <li>• Fundamentals of Computer Application, Tsinghua University Press, 2013</li> <li>• Visual Basic.NET Programming Tutorial, China Railway Publishing House, 2019</li> </ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"> <li>• In 2018, tutored three students from Railway College, namely YAO Huitao, LI Hao, KOU Xinyu, for the 10th University Computer</li> <li>• Application Competition in Shanghai and won the second prize; tutored the same students for the 2018 (11th) China University</li> <li>• Student Computer Design Competition, and won the national first prize.</li> </ul>



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<b>Name</b>	SHANG Shanshan	
<b>Post</b>	Associate Professor	
<b>Academic career</b>	2014-2019	Donghua University, Textile College, Ph.D. in Textile Engineering
	2019.01-07	University of Manchester, UK, Study Programme
	2010-2013	Donghua University, Textile College, Master's Degree in Textile Engineering
	2010-2013	Inner Mongolia University of Technology, Bachelor's Degree in Textile Engineering
<b>Employment</b>	2013-2019	Shanghai University of Engineering Science, Lecturer
	Since 2019	Shanghai University of Engineering Science, Associate Professor
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Dynamic twisting mechanism of airflow under gas-solid coupling, Young Talent Projects of National Natural Science Fund (project leader)</li> <li>● Coupled fiber/airflow dynamics model based on high-speed spinning airflow, General Projects of National Natural Science Fund, 51076026 (Participant)</li> <li>● Research on the coupled motion of airflow and fiber in jet vortex spinning, Doctoral Dissertation Innovation Grant Project of Donghua University, 16D310104 (Project leader)</li> <li>● Research on key technology of high-speed vortex spinning machine based on the coupling between fiber and airflow, Basic Research Project of China National Textile and Apparel Council (Participant)</li> <li>● Research on the nonlinear dynamics of fiber bundles in tangential jet swirl field, Young Talent Projects of National Natural Science Fund (Participant)</li> <li>● Research on reading promotion strategies in libraries of colleges and universities based on effective reading, Public libraries and Information Research Project of Yangtze River Delta (Participant)</li> <li>● Shanghai marine engineering industry innovation and competence map research, Shanghai Municipal Science and Technology Commission (Participant)</li> <li>● Robot development and research, Shanghai Municipal Education Commission (Participation)</li> </ul>	



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<p><b>Industry collaborations over the last 5 years</b></p>	<ul style="list-style-type: none"> <li>● Simulation and research on battery pack heat dissipation (Project leader) 2020.06-2020.12</li> <li>● Research on academic service team building in libraries of colleges and universities (Project leader) 2020.06-2020.10</li> </ul>
<p><b>Patents and proprietary rights</b></p>	<ul style="list-style-type: none"> <li>● <b>SHANG Shanshan</b>, YU Chongwen, PEI Zeguang, LI Meiling, HUI Huayi. A jet vortex spinning nozzle device with a three-section internal structure [P]. Patent No.: ZL 2012104350 89.5, Grant date: 20150812.</li> <li>● MENG Chaoran, YU Chongwen, <b>SHANG Shanshan</b>, CUI Qilu, ZHANG Bin. A hydroxylated bacterial cellulose aqueous/aerogel-assisted oxidative degumming of ramie [P]. Application No.: CN201710157038.3. Substantive review.</li> </ul>
<p><b>Important publications</b></p>	<ul style="list-style-type: none"> <li>● <b>Shang Shanshan</b>, Yang Jianping, Yu Chongwen. Numerical Simulation of Airflow Field in Vortex Spinning Processing [J]. Textile Research Journal, 2019, 89 (6): 1113-1127.</li> <li>● <b>Shang Shanshan</b>, Yang Jianping, Yu Chongwen. Numerical Simulation of Swirling Airflow Dynamics in Vortex Spinning [J]. Textile Research Journal, 2018, 88 (7): 833-843.</li> <li>● <b>Shang Shanshan</b>, Hu Biyu, Yu Chongwen, Pei Zeguang. Effect of Wrapped Fiber on Tenacity of Viscose Vortex Yarn [J]. Indian Journal of Fiber &amp; Textile Research, 2016, 41 (3): 278-283.</li> <li>● <b>Shang Shanshan</b>, Sun Na, Yu Chongwen, Chang Tao, Li Meiling. Optimization of Nozzle Structure Parameters of Vortex Spinning [J]. Textile Research Journal, 2015, 85(9): 998-1006.</li> <li>● Li Meiling, Yu Chongwen, <b>Shang Shanshan</b>. Effect of Vortex Tube Structure on Yarn Quality in Vortex Spinning Machine [J]. Fibers and Polymers, 2014, 15 (8), 1786-1791.</li> <li>● Li Meiling, Yu Chongwen, <b>Shang Shanshan</b>. A Numerical and Experimental Study on the Effect of the Orifice Angle of Vortex Tube in Vortex Spinning Machine [J]. Journal of the Textile Institute, 2013, 104 (12):1303-1311.</li> </ul>
<p><b>Activity in professional associations within the last 5 years</b></p>	<ul style="list-style-type: none"> <li>● 2017 Calligraphy</li> <li>● Boardwriting</li> <li>● Penmanship</li> <li>● Chinese Painting Competition of University Teachers in Shanghai, second prize, organizer: Shanghai Committee of the China Education Union</li> </ul>



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<b>Name</b>	SUN Yixia
<b>Post</b>	Associate Professor
<b>Academic career</b>	<p>2002-2006 Shandong University, B.S. Major in Engineering Mechanics</p> <p>2006-2009 Shandong University, M.S. Major in Solid Mechanics</p> <p>2009-2015 Tongji University, Ph.D. Major in Mechanics</p>
<b>Employment</b>	<p>2015-2018 Shanghai University of Engineering Science, Assistant Professor</p> <p>2018- Shanghai University of Engineering Science, Associate Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Control Parameter Optimization and Experimental Implementation of a Time-delayed Absorber, funded by NSFC (No.11602135). Period: 2016-2019. Funding: RMB 250,000 (Lead)</li> <li>● Design and Optimization of a Time-delayed Absorber, funded by Shanghai Municipal Education Commission (ZZGCD15083). Period: 2016-2017. Funding: RMB 50,000 (Lead)</li> <li>● Real-Time Parameters Identification of Rate-dependent Hysteresis Model and Adaptive Vibration Control for Smart Structure, by NSFC (No.11702186). Period: 2017-2020. Funding: RMB 240,000 (Participate in)</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Vibration analysis of SCARA Mechanical Arm. Partner: Dongguan Shinyou Intelligent Technology Co., Ltd. Period: 2017- 2018 (Participate in)</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>● None</li> </ul>



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<b>Important publications</b>	<ul style="list-style-type: none"><li>● <b>Yixia Sun</b>, Jian Xu. Experiments and analysis for a controlled mechanical absorber considering delay effect. <i>Journal of Sound and Vibration</i>, 2015, 339:25-37</li><li>● Jian Xu, <b>Yixia Sun</b>. Experimental studies on active control of a dynamic system via a time-delayed absorber. <i>Acta Mechanica Sinica</i>, 2015, 31(2):229-247</li><li>● <b>Yixia Sun</b>. Design and Experimental Studies of an Active Vibration Absorber with Adjustable Time Delay. <i>Proceeding of the 2017 International Conference on Advanced Mechatronic Systems</i>, Xiamen, China, December 6-9, 2017</li><li>● Jianjun Liu, <b>Yixia Sun</b>, Sheng Li. Time delay feedback control and parameter optimization of automotive suspension system. <i>Journal of Mechanical &amp; Electrical Engineering</i>, 2020, 37(1): 54- 58</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● Member of the Chinese Society of Theoretical and Applied Mechanics</li></ul>





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<b>Name</b>	LI Peichao
<b>Post</b>	Associate Professor
<b>Academic career</b>	<p>1994-1998 University of Science and Technology of China, Bachelor of Science in Theoretical and Applied Mechanics</p> <p>1998-2003 University of Science and Technology of China, M.Sc. and Ph.D. in Fluid Mechanics</p>
<b>Employment</b>	<p>2004.02-2006.02 China University of Petroleum (Beijing) and Changqing Petroleum Exploration Bureau, Postdoctoral Researcher</p> <p>2006.03-2009.03 Shanghai Institute of Applied Mathematics and Mechanics, Assistant Researcher, Master Supervisor</p> <p>Since April, 2009 Shanghai University of Engineering Science, School of Basic Teaching, School of Mechanical Engineering, and School of Mechanical and Automotive Engineering, Associate Professor, Master's Supervisor</p> <p>2013.07-2014.07 School of Engineering and Applied Science, Princeton University, U.S.A., Senior Research Scholar</p> <p>2016.09-2017.09 School of Mechanical and Power Engineering, Shanghai Jiao Tong University, Visiting Scholar</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>Science and Technology Commission of Shanghai Municipality, Shanghai Natural Science Fund Project, 19ZR1421400, Study of LTNE-based Heat-Flow-Solid Complete Coupling Mechanism for Saturated Porous Media, 2019-07 to 2022-06, RMB 200,000, Research-in-progress, project leader</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>CAS Strategic Science and Technology Project for Testing, Shale Rock Mechanics Parameter Testing and Analysis, 2018.5-2018.8.</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>SONG Zhenyun, <b>LI Peichao*</b>, WU Zengzhi. A method for achieving repeated fracturing to create new fractures, China, Patent No.: ZL200510096443.6, Grant date: 2010.11.24.</li> <li><b>LI Peichao*</b>, LI Xiangui, FAN Zhiyi. A simple and efficient marine oil spill collector and recovery method, China, Patent No.: ZL201710291888.2, Date of application: 2017.04.28, Grant date: 2019.03.15, Grant No.: CN106988288B.</li> <li>SHEN Airu, <b>LI Peichao*</b>. Load limiting device for transport vehicles at road traffic toll stations, Utility model patent, Patent No.: ZL201920557435.4: ZL201920557435.4, Application date: 2019.04.23, Date of grant: 2020.02.18, Grant No.: CN210086115U.</li> </ul>



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<p><b>Important publications</b></p>	<ul style="list-style-type: none"> <li>● Fu Fangda, <b>Li Peichao*</b>, Wang Keyong, Wu Rui. Numerical simulation of sessile droplet spreading and penetration on porous substrates[J]. Langmuir, 2019, 35(8): 2917–2924.</li> <li>● Shen Airu, <b>Li Peichao*</b>, Wang Keyong, Qian Guian*, Berto Filippo. A simplified method for parameters calibration of the new local approach model for cleavage fracture in a ferritic steel[J]. Theoretical and Applied Fracture Mechanics, 2019, 100: 426–433.</li> <li>● <b>Li Peichao</b>, Zhong Jialun, Wang Keyong, Zhao Changying*. Analysis of thermally developing forced convection heat transfer in a porous medium under local thermal non-equilibrium condition: A circular tube with asymmetric entrance temperature[J]. International Journal of Heat and Mass Transfer, 2018, 127: 880–889.</li> <li>● Xu Chunyuan, <b>Li Peichao*</b>, Lu Zhiwei, Liu Jianwu, Lu Detang. Discrete fracture modeling of shale gas flow considering rock deformation[J]. Journal of Natural Gas Science and Engineering, 2018, 52: 507–514.</li> <li>● <b>Li Peichao*</b>, Wang Keyong, Fang Guankao, Lu Detang. Steady-state analytical solutions of flow and deformation coupling due to a point sink within a finite fluid-saturated poroelastic layer[J]. International Journal for Numerical and Analytical Methods in Geomechanics, 2017, 41(8): 1093–1107.</li> </ul>
<p><b>Activity in professional associations within the last 5 years</b></p>	<ul style="list-style-type: none"> <li>● 2016 Outstanding Young Scholar Award of Shanghai Society of Theoretical and Applied Mechanics</li> <li>● Chief Editor of Concise Engineering Mechanics, 2015 Shanghai Excellent University Textbook Award</li> <li>● Member of the Chinese Society of Mechanics</li> <li>● Member of the Chinese Society of Engineering Thermophysics</li> <li>● Member of the Committee of Rock and Soil Mechanics, Shanghai Society of Theoretical and Applied Mechanics</li> <li>● Member of the Youth Work Committee of the Shanghai Society of Theoretical and Applied Mechanics</li> <li>● Academic Ambassador of Bentham Science Publishers</li> </ul>



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<b>Name</b>	CAO Lijie
<b>Post</b>	Associate Professor
<b>Academic career</b>	<p>1988-1992 Jiamusi Institute of Technology, Bachelor of Engineering in Welding Technology and Equipment</p> <p>1999-2001 Harbin Institute of Technology, Master of Science in Materials Processing and Engineering</p>
<b>Employment</b>	<p>1992-1996 Jiamusi Explosion-Proof Electric Engine Co. Ltd., Assistant Engineer, Engineer</p> <p>1996-2003 Jiamusi University (School of Engineering), Lecturer</p> <p>2003- Shanghai University of Engineering Science, Lecturer, Associate Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>• None</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>• Design and optimization of photoelectric control system for pharmaceutical machines, Shanghai Jiyoyi Precision Machinery Technology Co., Ltd, 2016-2018.</li> <li>• Design of optical platform welding structure, Changchun Fifth Optical Machinery Factory, 2011-2012</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>• A restraint device for precise control of punching depth and reduction of punching offset, Patent code: CN 208162678 U</li> <li>• An optimized intelligent vibration damping system for suspension structures, Patent code: ZL2017 2 351888.9</li> </ul>



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<b>Important publications</b>	<ul style="list-style-type: none"><li>● Kai Yin, <b>Lijie Cao</b>, Nannan Wang. Mechanical properties and residual stresses of 5083 to AM60B dissimilar friction stir welding with different process parameters, Journal of Adhesion Science and Technology, 2019, 33: 2615-2629.</li><li>● Guangning Hou, <b>Lijie Cao</b>. Improving mechanical strength of La<sub>2</sub>O<sub>3</sub> and ZrO<sub>2</sub> co-doped silicate glasses for touch screen, Functional Materials Letters, 2018, 11: 1850026 .</li><li>● <b>Li-jie CAO</b>, Yu-juan WU, Li-ming PENG, Qu-dong WANG, Wen-jiang DING. Microstructure and tribological behavior of Mg–Gd–Zn–Zr alloy with LPSO structure, Trans. Nonferrous Met. Soc. China 2014 (24) :3785–3791.</li><li>● <b>Li-Jie Cao</b>, Qu-Dong Wang, Yu-Juan Wu, Bing Ye. Friction and wear behavior of Mg–11Y–5Gd–2Zn–0.5Zr (wt%) alloy with oil lubricant. Rare Met. (2013) 32(5):453–458.</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● 2015 Shanghai Excellent Textbook Award</li><li>● 2018 Outstanding Instructor for Shanghai Mechanics Competition</li><li>● 2017 Second prize of teaching achievement of fundamental engineering mechanics education, Shanghai University of Engineering Science</li><li>● Board member of Shanghai Society of Theoretical and Applied Mechanics, member of the Education Committee</li></ul>



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<b>Name</b>	SONG Fang
<b>Post</b>	Associate Professor
<b>Academic career</b>	<p>1998-2002 Harbin University of Science and Technology, Bachelor's degree of Mechanical Manufacture and Automation</p> <p>2002-2005 Harbin University of Science and Technology, Master's degree of Mechanical Design and Theory</p> <p>2005-2010 Harbin Institute of Technology, Doctor's degree of Mechanical Design and Theory</p>
<b>Employment</b>	<p>2010-2015 Shanghai University of Engineering Science, Lecturer</p> <p>2016- Shanghai University of Engineering Science, Associate Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Microstructure-array-based high-efficient transmission mechanism of high-friction &amp; low-adhesion for the wafer transfer and active control method, funded by NSFC (No. 51505273). Period: 2016-2018.</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>● None</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>● <b>Song Fang.</b> Gas Flow Sensor of Pressure Difference and its making method . Patent code: ZL 201711462917.3</li> <li>● <b>Song Fang.</b> A 3-DOF silicon based nano-positioning platform and its fabrication method Patent code: ZL201410276938.6</li> <li>● Chen Xuesen, <b>Song Fang.</b> An adjustable and self stable velocity reducer for pipeline. Patent code: ZL201510259662.5</li> <li>● Chen Xuesen, <b>Song Fang.</b> A self-adjusting velocity retarder . Patent code: ZL 2014101333030.0</li> </ul>



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<b>Important publications</b>	<ul style="list-style-type: none"><li>● <b>Fang SONG</b>, Jiang CHENG. A New Mechanism for High Acceleration Wafer Transfer Based on Position and Orientation Adjustment, International Journal of Simulation Systems, Science &amp; Technology, 2016.12, 45(17): 28.1~28.5</li><li>● Jia Chou Wang, <b>Fang SONG</b>. On-Chip Integration of Pressure Plus 2-Axis (X/Z) Acceleration Composite TPMS Sensors with a Single-Sided Bulk-Micromachining Technique. Micromachines, 2019.10,473:1-11</li><li>● Yu Zhong XIONG, <b>Fang SONG</b>. A piezoelectric cantilever-beam energy harvester (PCEH) with a rectangular hole in the metal substrate. Microsystem Technologies. 2020,26:801-810<ul style="list-style-type: none"><li>● Da Chao Wang, <b>Fang SONG</b>. Consensus control of nonlinear multiagent systems with incremental quadratic constraints and time delays. Mathematical Problems in Engineering. 2020,1-11</li></ul></li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● The first prize of The third teaching competition of young teachers in Shanghai University of Engineering Science</li></ul>



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<b>Name</b>	Cai Yingling
<b>Post</b>	Professor
<b>Academic career</b>	<p>1981-1985 Dong Hua University, B.E. Major in Textile Engineering.</p> <p>2000-2003 Dong Hua University, M.E. Major in Environmental Engineering</p> <p>2009-2015 University of Shanghai for Science and Technology, Ph.D. Major in Refrigeration and Cryogenic Engineering</p>
<b>Employment</b>	<p>1985-1992 Henan Institute of Engineering, Assistant</p> <p>1993-1998 Henan Institute of Engineering, Lecturer, Head of the teaching and research section</p> <p>1999-2004 Henan Institute of Engineering, Associate Professor, Vice Dean</p> <p>2004-2016 Shanghai University of Engineering Science, Associate Professor, Department Head</p> <p>2017-2019 Shanghai University of Engineering Science, Professor, Vice Dean</p> <p>2020- Shanghai University of Engineering Science, Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Technology development of automatic control system for air conditioning with metal radiation ceiling, funded by Shanghai Qingpu District Science and Technology Commission, Period: 2020-2021.</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Standardization debugging and testing of ventilation and air conditioning system in Suzhou Modern Media Plaza, No. (17)JX-011: E4-6000-17-0122, funded by Shanghai Jianshe Construction Engineering Quality Inspection Co. LTD. Period: 2017-2018.</li> <li>● Comparison test of dehumidification capacity and energy saving performance adding a dehumidification heat pipe for the combined air conditioning unit, No. (19)JQ-004: E4-6000-19-0006, funded by Shanghai Jianshe Construction Engineering Quality Inspection Co. LTD. Period: 2018-2019.</li> <li>● 2019 Public Buildings Energy Audit, No. (19)JQ-044:E4-6000-19-0190,funded by Shanghai Oriental Yanhua Energy Saving Technology Service Co. LTD. Period: 2019-2020.</li> <li>● Technology development of automatic control system for air conditioning with metal radiation ceiling, No. (19)JQ-045: E4-6000-19-0210,funded by Shanghai Hefu New Material Technology Co.,LTD. Period: 2019-2021.</li> </ul>



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<p><b>Patents and proprietary rights</b></p>	<ul style="list-style-type: none"> <li>● Drawer type phase change heat storage tank, Patent code: ZL 2018 2 1338752.9</li> </ul>
<p><b>Important publications</b></p>	<ul style="list-style-type: none"> <li>● <b>Cai Yingling</b>, Xu Hui, Chen Shuai, Testing and analysis of the influence factors for the ground thermal parameters[J]. Applied thermal engineering, 2016, 107(2):662-671.</li> <li>● <b>Cai Yingling</b>, Zhang Hua, Xu Hui, est and analysis of influencing factors based on TRNSYS geotechnical thermal response test[J]. Heating Ventilating and Air Conditioning, 2016, 046(009):135-140.</li> <li>● Xu Hui, <b>Cai Yingling</b>(Corresponding author), Study on soil Temperature Variation characteristics of solar-ground source heat pump combined Heating in Shanghai area[J]. Journal of Solar Energy, 2016, 37(9):2314-2319.</li> <li>● Liu Kai, <b>Cai Yingling</b>(Corresponding author), Experimental study of a new phase change heat storage tank applied to a solar energy combination system[J]. Energy Storage Science and Technology, 2019, 8(6):1230-1234.</li> <li>● Li Hao, <b>Cai Yingling</b>(Corresponding author), Experimental study of closed cooling Tower-soil source heat pump Air-conditioning system in summer[J]. Fluid Machinery, 2019, 47(8): 81-88.</li> <li>● Jing Bolong, <b>Cai Yingling</b>(Corresponding author), Simulation and verification of PV/T heat transfer unit structure[J]. Energy- Saving Technology, 2019, 37(01):32-36.</li> <li>● Cui Yun Xiang, <b>Cai Yingling</b>(Corresponding author), Experimental Study on Joint Operation Characteristics of Solar-Ground Heat Pump System in Shanghai[J]. Fluid Machinery, 2019, 47(2): 65-69.</li> <li>● Liu Kai, <b>Cai Yingling</b>(Corresponding author), Study on the experimental characteristics of gas-assisted solar energy combination system in winter operation[J]. Fluid Machinery, 2020(2):</li> <li>● Jing Bolong, <b>Cai Yingling</b>(Corresponding author), Spring experimental study on Inflation Micro-flow-path Solar Photovoltaic/thermal(PV/T)Collector System[J]. Building Science, 2020, 36(04):123-128.</li> </ul>
<p><b>Activity in professional associations within the last 5 years</b></p>	<ul style="list-style-type: none"> <li>● Member of the Teaching Committee of Energy and Power Engineering, China Electric Power Education Association. Period: 2019-2023.</li> <li>● Evaluation expert of National Energy Conservation Center</li> <li>● Member of Shanghai Science and Technology Special Committee of Jiusan Society. Period: 2017-2022.</li> <li>● Shanghai Government Procurement Evaluation Expert</li> <li>● Shanghai Energy Conservation and Environmental Protection Industry Expert</li> <li>● Member of China Refrigeration Society</li> </ul>





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<b>Name</b>	ZHANG Liqiang
<b>Post</b>	Professor
<b>Academic career</b>	<p>1997-2001 Shandong University, Bachelor of Engineering Mechatronic Engineering</p> <p>2001-2004 Qingdao Technological University, Master of Engineering Mechanical design and theory</p> <p>2004-2008 Shanghai Jiaotong University, Doctor of Engineering Mechanical Manufacturing and Automation</p>
<b>Employment</b>	<p>2009-2013 Shanghai University of Engineering Science, Lecturer</p> <p>2013-2018 Shanghai University of Engineering Science, Associate Professor</p> <p>2019- Shanghai University of Engineering Science, Professor</p> <p>2017-2018 Missouri University of Science and Technology A visiting scholar</p>
<b>Research and development projects over the last 5years</b>	<ul style="list-style-type: none"> <li>• The theory and method of efficient mirror image processing of thin-walled parts based on surface shape reconstruction and stiffness adaptation, National Natural Science Foundation of China (No.51775328), implementation period: 2018.01-2021.12</li> <li>• The theory and method of tool path planning for efficient machining of thin-walled parts based on constraint fusion mechanism, National Natural Science Foundation of China (No.51305254), implementation period: 2014.01-2016.12</li> <li>• Research on the Theory and Application of 5-axis High-efficiency Machining Tool Path Planning Based on Conformal Mapping, Scientific Research Innovation Project of Shanghai Education Commission (No.13YZ108), Execution Period: 2013.01-2015.12</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>• Stability analysis of high-speed milling of thin-walled parts with low stiffness and optimization of process parameters, partner: Shanghai Topu CNC Technology Co., Ltd., 2013</li> <li>• Target recognition model based on radar echo, partner: China Shipbuilding Industry Corporation, 2018.09-2020.08</li> </ul>



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<p><b>Patents and proprietary rights</b></p>	<ul style="list-style-type: none"> <li>● <b>Liqiang Zhang</b>, Geometry and mechanics integrated optimization information processing method for complex curved surface without interference toolpath. Chinese invention patent, authorization number: ZL2010105901773.</li> <li>● <b>Liqiang Zhang</b>, five-axis CNC machining toolpath optimization and simulation software Vsimul V1.0, software copyright, registration number: 2011SR038352.</li> <li>● Shoujun Zhang (Graduate), <b>Liqiang Zhang</b>, Jun Zhang. Five-axis equidistant double NURBS toolpath interpolation algorithm based on parameter synchronization. Chinese invention patent, authorization number: ZL2014102289389.</li> <li>● <b>Liqiang Zhang</b>, Tian Gao, Jian Mao. Continuous small line segment high-speed smooth interpolation software v1.0 based on RTX platform, software copyright, registration number: 2017SR069215.</li> <li>● Jinghao Guo (Graduate), <b>Liqiang Zhang</b>. Attitude angle monitoring software V1.0 based on motion carrier, software copyright, registration number: 2018SR682361.</li> </ul>
<p><b>Important publications</b></p>	<ul style="list-style-type: none"> <li>● <b>L Q Zhang</b>, J F Du. Acceleration smoothing algorithm based on jounce limited for corner motion in high-speed machining. International Journal of Advanced Manufacturing Technology, 2018, 95(1-4): 1487-1504.</li> <li>● J F Du, <b>L Q Zhang</b>. Acceleration smoothing algorithm for global motion in high-speed machining. Journal of Engineering Manufacture, 2019, 233(8):1844-1858.</li> <li>● <b>Liqiang Zhang</b>, Kai Zhang. Local Corner Smoothing Transition Algorithm Based on Double Cubic NURBS for Five-axis Linear Tool Path. Strojnicki vestnik - Journal of Mechanical Engineering, 2016, 62(11):647-656.</li> <li>● <b>Liqiang Zhang</b>. Process modeling and toolpath optimization for five-axis ball-end milling based on tool motion analysis. International Journal of Advanced Manufacturing Technology, 2011, 57(9-12): 905-916.</li> <li>● Kai Zhang, <b>Liqiang Zhang</b>. Single spherical angle linear interpolation for the control of non-linearity errors in five-axis flank milling. International Journal of Advanced Manufacturing Technology, 2016, 87(9): 3289-3299.</li> </ul>



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<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● 2017 - One second prize of the Science and Technology Award of the China Business Federation, ranking second;</li><li>● 2017 - One third prize of China Machinery Industry Science and Technology Award, ranking third;</li><li>● 2018 、 2014 - Second Prize of Shanghai Teaching Achievement Award;</li><li>● 2018 - "Youth May 4th Medal" by Shanghai University of Engineering Science;</li><li>● 2015 - 2014-2015 Excellent Head Teacher of Shanghai University of Engineering Science;</li><li>● 2012 - The 11th Outstanding Young Teacher of Shanghai University of Engineering Science。</li><li>● Served as a reviewer for "International Journal of Advanced Manufacturing Technology"</li><li>● Evaluation Expert of the Second Division of Engineering Science, Ministry of Engineering and Materials Science, National Natural Science Foundation of China</li><li>● Member of China Machinery Industry Metal Cutting Tool Technology Association</li></ul>
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## Appendix A – Staff Resume

<b>Name</b>	MAO Jian
<b>Post</b>	Professor
<b>Academic career</b>	<p>1992-1996 Xi'an University of Technology, Bachelor Mechanical Manufacturing and Automation</p> <p>1999-2002 Xi'an University of Technology, Master Mechanical Manufacturing and Automation</p> <p>2002-2007 Mechanical Engineering, Zhejiang University, PhD Mechanical Manufacturing and Automation</p>
<b>Employment</b>	<p>2007-2009 Chinese University of Hong Kong Postdoc</p> <p>2009-2010 Shanghai University of Engineering Science, Lecturer</p> <p>2011-2017 Shanghai University of Engineering Science, Associate Professor</p> <p>2018- Shanghai University of Engineering Science, Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Research on tolerance modeling and design methods of complex products for assembly planning, National Natural Science Foundation of China (No. 51175322), implementation period: 2012.1-2015.12</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Target recognition model based on radar echo, execution period: 2018.08-2019.12</li> <li>● Development of the intelligent logistics system for finished products of New Technology Line 3, implementation period: 2017.06-2018.10</li> <li>● Dynamic simulation and optimization system for high-speed milling of low-rigidity thin-walled parts, execution period: 2016.07-2018.06</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>● Lubin Hang, <b>Jian Mao</b>, Wushan Cheng, Peiwen Liu, Chiyu Gong, Bingfang Wei, Lijun Cai. Photovoltaic panel group cleaning device based on monorail walking part, China, invention patent number:ZL201210457688.7, publication number: CN102974557B.</li> <li>● Yingge Yan, <b>Jian Mao</b>, Yang Xu, Ning Wang, Dejie Chen. An adjustable axial fast locking device, China, invention patent number:ZL201420272654.5,publication number: CN203843733U.</li> <li>● Ning Wang, <b>Jian Mao</b>, Yang Xu, Yingge Yan, Dejie Chen. A new type of marking tool for automatic riveting machine, China, invention patent number: ZL 201520419147.4, publication number: CN205085961U.</li> </ul>



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<b>Important publications</b>	<ul style="list-style-type: none"><li>● Fang Wu, <b>Jian Mao</b>, Yu-feng Zhou, Li Qing Three-line structured light measurement system and its application in ball diameter measurement, <i>Optik</i> 157 (2018) 222–229.</li><li>● <b>Jian Mao</b>, Yingge Yan. A noninvasive online system for biomass monitoring in shaker flasks using backward scattered light. <i>Biotechnology and Bioprocess Engineering</i>, 2017 , 22 (2) :161-1699.</li><li>● <b>Mao Jian</b>, Chen Dejie, Zhang Liqiang. Mechanical Assembly Quality Prediction Method Based on State Space Model. <i>International Journal of Advanced Manufacturing Technology</i>. (2016) 86:107–116).</li><li>● <b>Jian Mao</b>, Xianshuai Chen, Wei Feng, Songmei Yuan, Ruxu Du. A precision CNC turn-mill machining center with gear hobbing capability, <i>Precision Engineering</i>, 2015 (41) 126–134.</li><li>● Man Zhao, <b>Jian Mao</b>. The Study of Assembly Tolerance Relational Diagram Based on the Assembly Hierarchical Model. <i>Procedia CIRP</i>, 2016, 56:220-224.</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● Low-rigidity and complex thin-walled parts precision machining and testing technology and equipment China Federation of Commerce Science and Technology Award Second Prize (first)</li><li>● Multi-axis linkage CNC equipment contour error detection and compensation technology and its application China Machinery Industry Science and Technology Award Third Prize (first)</li><li>● Member of the National Standardization Technical Committee for Product Dimensions and Geometric Technical Specifications (SAC/TC240)</li><li>● Director of the National Institute of Interchangeability and Measurement Technology in Universities</li></ul>



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<b>Name</b>	SU Shengchao
<b>Post</b>	Associate Professor
<b>Academic career</b>	<p>2000-2004 Jiangnan University, Bachelor's Degree in Electrical Engineering and Automation</p> <p>2004-2007 Jiangnan University, Master's Degree in Detection Technology and Automation Device</p> <p>2011-2017 Donghua University, Doctor's Degree in Control Theory and Control Engineering</p>
<b>Employment</b>	<p>2007-2009 Shanghai University of Engineering Science, Assistant</p> <p>2009-2014 Shanghai University of Engineering Science, Lecturer</p> <p>Since 2014 Shanghai University of Engineering Science, Associate Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>• Dyeing robot management software system, funded by Shanghai Science and Technology Commission (17511110204). Period: 2017-2019. Funding: RMB 100,000</li> <li>• The Research of System Identification Based on the Quantized Observations in a Networked Environment, funded by NSFC (No. 61603241). Period: 2017-2019. Funding: RMB 190,000</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>• System integration and testing for assembly line, Subproject of national science and technology support plan (2015BAF10B01). Partner: Shanghai Electric Group Co., Ltd. Period: 2015-2017. Funding: RMB 160,000</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>• FPGA-based serial interface and PWM combined application IP core. Patent code: ZL201210529630.9</li> <li>• A track detection and positioning system based on the combination of NFC technology and machine vision. Patent code: ZL201822051863.8</li> </ul>



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<b>Important publications</b>	<ul style="list-style-type: none"><li>● <b>Su Sheng Chao</b>, Zhao Shu Guang, Wireless sensor routing algorithm based on energy balance, Computer Science, 2018, 45(10): 111-114</li><li>● <b>Su Sheng Chao</b>, Zhao Shu Guang, An optimal clustering mechanism based on Fuzzy-C means for wireless sensor networks, Sustainable Computing: Informatics and Systems, 2018, 18: 127-134</li><li>● <b>Su Sheng Chao</b>, Zhao Shu Guang, A Novel Virtual Force-based Data Aggregation mechanism with mobile Sink in Wireless Sensor Networks, Cluster Computing, 2019, 22: 13219-13234</li><li>● <b>Su Sheng Chao</b>, Zhao Shu Guang, A hierarchical hybrid of genetic algorithm and particle swarm optimization for distributed clustering in large-scale wireless sensor networks, Journal of Ambient Intelligence and Humanized Computing, Published Online: 2017, 11: 1-11</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● 2016 Outstanding Young Teacher in Shanghai Universities of Engineering Science</li><li>● 2016 Outstanding instructor of Shanghai industrial automation challenge round awarded by Shanghai Municipal Education Commission</li><li>● 2017 Second prize of teaching achievement of Shanghai University of Engineering and Science</li><li>● 2019 Third prize of young teachers' teaching competition of Shanghai University of Engineering and Science</li></ul>



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<b>Name</b>	ZHANG Wei
<b>Post</b>	Professor
<b>Academic career</b>	<p>1995-1999 University of Electronic Science and Technology of China, B.S. Major in Applied Chemistry</p> <p>2000-2003 University of Electronic Science and Technology of China, M.S. Major in Computational Mathematics</p> <p>2003-2007 Shanghai Jiao Tong University, Ph.D. Major in Control Theory and Control Engineering</p>
<b>Employment</b>	<p>1999-2001 Sichuan Changhong Group Senior Engineer</p> <p>2010-2014 Shanghai University of Engineering Science Lecturer,</p> <p>2014-2019 Shanghai University of Engineering Science Associate Professor</p> <p>2019- Shanghai University of Engineering Science Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Research on Unknow Input Observer Design for One-Sided Lipschitz Nonlinear Systems, funded by Shanghai Municipal Natural Science (No.12ZR1412200). Period: 2012-2015. (PI)</li> <li>● Flocking Control of Networked Heterogeneous Multi-Agent Systems, funded by NSFC (No.61473129). Period: 2015-2018. (Co-PI)</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Simulation Analysis and Algorithm Design for Gas Metal Arc Welding Control Systems, Period: 2019-2020, Fund by Shanghai Meike New Energy Technology Co., Ltd</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>● Li Jian, <b>Zhang Wei</b>, Wu Rui, Wu Zhiyang, Xie Hongyang. An ABS brake block with elastomer. Patent code: ZL201410102743.X</li> <li>● Guo Hui, Wang Yansong, Xu Chi, <b>Zhang Wei</b>, Wang Xiaolan, Liu Ningning. A wide screen sound energy recovery device. Patent code: ZL201610052090.8</li> </ul>





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<b>Important publications</b>	<ul style="list-style-type: none"><li>● Younan Zhao, <b>Wei Zhang*</b>, Housheng Su, Junqi Yang, Observer-based synchronization of chaotic systems satisfying incremental quadratic constraints and its application in secure communication, IEEE Transactions on Systems, Man, and Cybernetics: Systems, in press. doi: 10.1109/TSMC.2018.2868482</li><li>● <b>Wei Zhang</b>, Housheng Su, Fanglai Zhu, Shankar P. Bhattacharyya, Improved exponential observer design for one-sided Lipschitz nonlinear systems, International Journal of Robust and Nonlinear Control, vol.26, pp.3958-3973, 2016</li><li>● <b>Wei Zhang</b>, Housheng Su, Fanglai Zhu, Ghassan M. Azar, Unknown input observer design for one-sided Lipschitz nonlinear systems, Nonlinear Dynamics, vol.79, pp.1469-1479, 2015</li><li>● <b>Wei Zhang</b>, Housheng Su, Fanglai Zhu, Dong Yue, A note on observers for discrete-time Lipschitz nonlinear systems, IEEE Transactions on Circuits and Systems-II: Express Briefs, vol. 59, no. 2, pp. 123-127, 2012.</li><li>● <b>Wei Zhang</b>, Housheng Su, Hongwei Wang, Zhengzhi Han, Full-order and reduced-order observers for one-sided Lipschitz nonlinear systems using Riccati equations, Communications in Nonlinear Science and Numerical Simulation, vol.17, no.12, pp. 4968- 4977, 2012.</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● <b>Wei Zhang</b>. Second prize of science and technology of Henan Province, 2019</li><li>● <b>Wei Zhang</b>. Second prize of Wu Wenjun artificial intelligence Natural Science, 2019</li><li>● <b>Wei Zhang</b>. Member of Shanghai Automation Society</li><li>● <b>Wei Zhang</b>. Mathematical Review in American Mathematical Society</li></ul>



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<b>Name</b>	ZHANG Xu	
<b>Post</b>	Professor	
<b>Academic career</b>	1997.9-2001.7	Liaoning University of Technology, Bachelor's Degree in Mechatronics
	2001.9-2004.2	Liaoning University of Technology, Master's Degree in Vehicle Engineering (Rail Transit Vehicle)
	2004.2-2008.9	Zhejiang University, Ph.D. in Mechanical Engineering
<b>Employment</b>	2008.10-2010.6	Ningbo Institute of Technology, Zhejiang University
	Since July, 2010	Shanghai University of Engineering Science
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>Digitalization of ZB45-type medium tobacco packing machine. Shanghai Tobacco Machinery Co., Ltd. 2019.9-2020.8</li> </ul>	
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>A cross-sectional curve reconstruction method for 3d model reconstruction. Patent code: ZL 2015 1 0341939.9</li> </ul>	
<b>Important publications</b>	<ul style="list-style-type: none"> <li>Lushan Cheng, <b>Xu Zhang</b>, Jie Shen. Road surface condition classification using deep learning[J]. Journal of Visual Communication and Image Representation, 2019, 64, 1-7</li> <li>Xin Liu, <b>Xu Zhang</b>, Dazhong Wang. Numerical analysis of different cutting edge radii in hot micro-cutting of Inconel 718[J]. Proceedings of the Institution of Mechanical Engineers Part C- Journal of Mechanical Engineering Science, 2019, 1-15</li> <li><b>Xu Zhang</b>, Haibo Zhang, Liqiang Zhang, Jie Shen. High-Precision Extraction of Segment Points of 2D Profiles Based on a Dynamic Grid Method[J]. Mathematical Problems in Engineering, 2019, 2019: 1-12</li> <li><b>Zhang Xu</b>; Wu HB. Effect of tool angle on cutting force and residual stress in the oblique cutting of TC21 alloy[J]. International Journal of Advanced Manufacturing Technology, 2018, 98(1-4): 791-797.</li> <li><b>Zhang Xu</b>; Wu HB. Influence of path on the ultra-precision polishing process of titanium alloy Ti6A14V [J]. International Journal of Advanced Manufacturing Technology, 2018, 98(5-8): 1155-1162.</li> </ul>	



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<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>• None</li></ul>
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<b>Name</b>	WANG Ping
<b>Post</b>	Associate Professor
<b>Academic career</b>	<p>1980-1984 Northwest Normal University, B.A. Major in English Language and Literature</p> <p>1999-2004 Northwest Normal University, M.A. Major in English Language and Literature</p> <p>2008-2011 Shanghai International Studied University, Ph.D. Major in English Language and Literature</p>
<b>Employment</b>	<p>1984-1990 Gansu Agricultural University Lecturer</p> <p>1990-2004 Gansu Agricultural University Associate Professor</p> <p>2004-2011 Huzhou Teachers University Lecturer</p> <p>2011-2016 Shanghai University of Engineering Science Lecturer</p> <p>2016- Shanghai University of Engineering Science Associate Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● A Study on English Teaching Reform of Non-English Majors Under the Background of New Engineering, funded by Graduate Department of SUES (No.2019XJG007). Period: 2019.</li> <li>● Integrate Chinese and Western Culture to Give Full play to the Function of College English for College Students' Moral Education, funded by SUES (No.k201718001). Period: 2017-2018.</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Development of Chinese College English Teachers' Educational Technology Ability. Partner: Shanghai Foreign Language Education Press. Period: 2019-2020.</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>● None</li> </ul>



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<p><b>Important publications</b></p>	<ul style="list-style-type: none"> <li>● Yiling Zhang, <b>Ping Wang</b> (Coach), The Relationship Between the Degree of Urban Development and Human Happiness, (SSPHE 2018), CPCI, 201901</li> <li>● <b>Ping Wang</b>, Cultural Characteristics of Idiomatic Expressions and their Approaches of Translation, Journal of Literature and Art Studies, 2018, 8 (2): 295-300</li> <li>● <b>Ping Wang</b>, Analysis of the Characteristics of Lanzhou Dialect and Research of its Cultural Connotation Under the Background of the Belt and Road. CPCI, 201709</li> <li>● <b>Ping Wang</b>, The Superficial and Innate Characteristics of Anomalous Collocations on Idiomatic Expressions, Foreign Language and Literature, 2014, 160 (4):72-75</li> <li>● <b>Ping Wang</b>, A Study on English and Chinese Phrase Structure, National Defense Industry Press, 2013</li> <li>● <b>Ping Wang</b>, Discussing the Cohesive Function of Idiomatic Expressions, Hubei Social Sciences, 2013, 317(5)</li> <li>● <b>Ping Wang</b>, Holistic Cognition and Meanings of Restricted Combinations, Academics, 2012, 173 (10): 267-272</li> <li>● <b>Ping Wang</b>, The Motivation and Convention of Idiomatic Expressions, Foreign Language and Literature, 2012, 150 (6):84- 89</li> </ul>
<p><b>Activity in professional associations within the last 5 years</b></p>	<ul style="list-style-type: none"> <li>● <b>Ping Wang</b>, 2016 Third Coach Award in the Shanghai Provincial Final of 2016 “FLTRP Cup” English Reading Contest</li> <li>● <b>Ping Wang</b>, 2018 Woman Achievement Model of Shanghai Universities of Engineering Science</li> <li>● <b>Ping Wang</b>, Member of the Global Rhetoric Society</li> <li>● <b>Ping Wang</b>, Council Member of Shanghai International Studies Association</li> </ul>



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<b>Name</b>	GU Qingsong
<b>Post</b>	Associate Professor
<b>Academic career</b>	<p>1985-1989 China Ocean University, B.A. Major in English</p> <p>2004-2006 Shanghai Maritime University, M.A. Major in English</p>
<b>Employment</b>	<p>1989-1993 Shandong University of Science and Technology Lecturer</p> <p>1993-2000 Nantong Far-east Trading Co., Imp. &amp; Exp. Manager</p> <p>2000-2006 Nantong University, Lecturer</p> <p>2007- Shanghai University of Engineering Science, Associate Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Presided over the Teaching Reform Project of Shanghai University of Engineering Science: "General Academic English Reading and Writing Course" Teaching Material Construction Project. Period: 2014-2016.</li> <li>● Preside over the support program for young teachers training of Shanghai Higher Education Commission.</li> <li>● Major Participants in “A study on the standards and evaluation system of foreign language ability of primary and secondary school students in China”, Major Projects for the 12th Five Year Plan of the National Language Commission, 2013-2018.</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Study on the Model of TEFL Supported by VR/AR Techniques, funded by Shanghai Foreign Language Education Publishing House (2019SH0024A) . Period: 2019-2020.</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>● None</li> </ul>



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<b>Important publications</b>	<ul style="list-style-type: none"><li>● <b>Gu, Q.</b> (2020). “A New Study on Parenthesis in the English Language from the Perspective of Modification”. In WOP in Education, Social Sciences and Psychology. London: Francis Academic Press. pp. 365-369. (CPCI)</li><li>● <b>Gu, Q.</b> (2019). A Study on Modifiers in the English Language. Journal of Language Teaching and Research 10(6), 1312-1317.</li><li>● <b>Gu, Q.</b> &amp; Schwartz, M. W. (2018). An Automatic Quantification of the Randomness of Answering Correctly in Taking Traditional Multiple-choice Tests. Theory and Practice in Language Studies 8(9), 1152-1159.</li><li>● <b>Gu, Q.</b> (2018). The Listen-to-write Approach Proposed for EFL Teachers of College English in China: Definition and Its Essentials. Journal of Language Teaching and Research 9(2), 398- 407.</li><li>● <b>Gu, Q.</b> &amp; Liu, J. (2015). “Listen-to-Write: A computer-assisted approach to improving college English writing in mainland China”. In Hsiang-Chuan Liu; Wen-Pei Sung; Wenli-Yao. Management, Information and Educational Engineering. London: Taylor &amp; Francis Group. pp. 601–603. (EI)</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● None</li></ul>



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<b>Name</b>	HU Ping
<b>Post</b>	Professor
<b>Academic career</b>	<p>1985-1989 Hubei Normal University, Bachelor's degree of English Language and Literature East China Normal University,</p> <p>2000-2003 Master's degree of World Literature and Comparative Literature East China Normal University,</p> <p>2011-2014 Phd of World Literature and Comparative Literature</p>
<b>Employment</b>	<p>1989-1997 Jingzhou Teacher's College, Hubei Lecturer</p> <p>2000-2015 Shanghai Qibao High School Lecturer</p> <p>2015- Shanghai University of Engineering Science, Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Ezra Pound's Poetic Creations and Myth, funded by NSFC (No. 17BWW065). Period: 2017-20205. Funding: RMB 200,000</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>● None</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>● None</li> </ul>
<b>Important publications</b>	<ul style="list-style-type: none"> <li>● <b>Hu Ping.</b> A Research on Ezra Pound's the Pisan Cantos. Shanghai: Shanghai University Press, 2017.</li> <li>● <b>Hu Ping.</b> Poetic Confucianism in Pound's the Pisan Cantos. Comparative Literature in China. (CSSCI). 2013(4). p123-132.</li> <li>● <b>Hu Ping.</b> On the Totalitarian Confucianism in Ezra Pound's The Pisan Cantos. Contemporary Foreign Literature(CSSCI). 2016(3). p59-65.</li> <li>● <b>Hu Ping.</b> Kuanon in Ezra Pound's Creations. Comparative Literature in China. (CSSCI). 2019(1).p148-158.</li> <li>● <b>Hu Ping.</b> The Images of Dionysus in Ezra Pound's Creations. Journal of Hennan University (CSSCI). 2019(4).p96-102.</li> </ul>





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<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>• None</li></ul>
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## Appendix A – Staff Resume

<b>Name</b>	WU Yuanqiong
<b>Post</b>	Associate Professor
<b>Academic career</b>	<p>1994-1998 Xuzhou Normal University, B.A.E. Major in English Education</p> <p>2000-2003 East China Normal University, M.A. Major in English language and literature</p>
<b>Employment</b>	<p>1998-2003 Xuzhou Normal University, Lecturer</p> <p>2003- Shanghai University of Engineering Science, Associate Professor</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>● The Mutual Construction of Discourse and Power: A Study on the External Communication Mechanism of American English (1945-2000), Shanghai Philosophy and Social Science Planning General Project (No. 2018BYY004). Period: 2019-2021.</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>● Concentration optimization of TM doped laser crystal. Partner: Shanghai Haolan photoelectric Co., Ltd. Period: 2019-2020</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>● None</li> </ul>
<b>Important publications</b>	<ul style="list-style-type: none"> <li>● <b>WU, Y.Q.</b> (2018). “On the fluid texts of Hong Lou Meng and the influence on related publications” [J]. Translation Forum, 2018(3): 77-81.</li> <li>● <b>WU, Y.Q.</b> (2018). “Hongloumeng, Honglou Meng, Hong Loumeng, or Hong Lou Meng” [J]. Theory and Practice in Language Studies, 8(7):742-748.</li> <li>● <b>WU, Y.Q.</b> &amp; N. FERNANDEZ DIAZ. (2017). “Translating the fluid texts of Hong Lou Meng”. Asia Pacific Translation and Intercultural Studies, 4(3):236-252.</li> <li>● <b>WU, Y.Q.</b> (2016). “A comparative study of metaphor in Chinese and English”. Bilingual Education Studies. 3(2): 57-62.</li> <li>● <b>WU, Q.Y.</b> &amp; <b>Y.Q. WU.</b> (2015). “Chinese-specific features should be retained in translating Chinese personal names”. Publishing Research. 2015(4): 68-71.</li> <li>● <b>WU, Y.Q.</b> (2013). “On the English translation of personal names in Hong Lou Meng”. Journal of Jixi University. 13 (4): 69-71.</li> <li>● <b>WU, Y.Q.</b> (2013). “Latest progress in research about metaphor and mind”. Journal of Mudanjiang College of Education. 2013(2): 29-30.</li> <li>● <b>WU, Y.Q.</b> (2012). “On the English version of Chinese personal names”. Perspectives: studies in translatology. 20(2): 139-149.</li> </ul>



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	<ul style="list-style-type: none"><li>● <b>WU, Y.Q.</b> (2009). “On the relationship between metaphor and cultural models”. <i>Metaphorik.de</i>. 2009 (17): 115-134.</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● 2010.3-2010.10 Staff of EU Pavilion at Shanghai World Expo</li><li>● 2009.3-2009.8 Volunteer guide at Zhongshan Park, Vancouver, Canada</li></ul>



## Appendix A – Staff Resume

<b>Name</b>	CHEN Huimin
<b>Post</b>	Senior Experimentalist
<b>Academic career</b>	1984-1988 Donghua University, B.S. Major in Physics 1988-1991 Donghua University, M.S. Major in Theoretical Physic
<b>Employment</b>	1991-2000 Nantong University, Lecturer 2000-2008 Shanghai University of Engineering Science, Lecturer 2008- Shanghai University of Engineering Science, Senior Experimentalist
<b>Research and development projects over the last 5years</b>	<ul style="list-style-type: none"><li>• "University Physics Experiment Basic Course" textbook construction, Shanghai University of Engineering Science Textbook Construction Project (No.J200721001), implementation period: 2007-2009</li><li>• The construction and practice of innovative research-oriented physics experiment teaching platform, Shanghai University of Engineering Science Laboratory Construction Project (No.p202021001), implementation period: 2020-2021</li></ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"><li>• Concentration optimization of TM doped laser crystal. Partner: Shanghai Haolan photoelectric Co., Ltd. Period: 2019-2020</li></ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"><li>• <b>CHEN Huimin</b>, Manufacturing method and product of additive functional viscose fiber, publication number: CN1740412</li></ul>



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<b>Important publications</b>	<ul style="list-style-type: none"><li>● <b>CHEN Huimin, ZHANG Chaomin.</b> Measuring of the Time Constant of the RC Series Circuit with the Capacitor Voltage Extremes[J]. Digital Technology &amp; Application, 2018, 36(09): 229-230.</li><li>● <b>CHEN Hui-min.</b> Measurement Error and Elimination of Sensitive Galvanometer Internal Resistance[J]. Journal of Shanghai University of Engineering Science, 2010, 24(04): 331-334.</li><li>● <b>CHEN Huimin, LIU Lie.</b> Influence of Alternating Current Frequency to Experimental Result of Static Field Description[J]. Journal of Shanghai University of Engineering Science, 2009, 23(03): 254-257.</li></ul>
<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● The construction of innovative and practical teaching mode based on "One Main Line, Multiple Combinations" of "Physics Experiment Course"-Third Prize of 2014 School Teaching Achievement Award</li></ul>



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<b>Name</b>	GU Bei
<b>Post</b>	Senior Laboratory Technician
<b>Academic career</b>	1996-2000 Tianjin Vocational and Technical Teachers' College, Bachelor's Degree
<b>Employment</b>	Since 2020 Engineering Training Center of Shanghai University of Engineering Science
<b>Research and development projects over the last 5 years</b>	● None
<b>Industry collaborations over the last 5 years</b>	● None
<b>Patents and proprietary rights</b>	● None
<b>Important publications</b>	● Training Tutorial for Typical Cases of Measurement Technology, Hefei University of Technology Press, 2016-07
<b>Activity in professional associations within the last 5 years</b>	● None



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<b>Name</b>	PU Yonghong
<b>Post</b>	Senior Laboratory Technician
<b>Academic career</b>	<p>2004-2007      Shandong University Master's Degree in Electrical Engineering and Automation</p> <p>1995-1999      Xi'an Shiyou University Bachelor's Degree in Electrical Engineering and Automation</p>
<b>Employment</b>	<p>1999-2004      Ji'nan Diesel Engine Co., Ltd.</p> <p>Since 2007      Shanghai University of Engineering Science Engineering Training Center</p>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>• Development of talent teams for laboratories in Shanghai 2015-2017</li> </ul>
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>• Design of multifunctional digital chip detector, self-developed experimental equipment</li> <li>• Development of AC programmable power supply for experiments, self-developed experimental equipment</li> </ul>
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>• None</li> </ul>
<b>Important publications</b>	<ul style="list-style-type: none"> <li>• Experimental Practice Teaching of PLC-based Industrial Automation Production Line, 2019.12, Industry and Technology Forum</li> <li>• Design of Labview-based Virtual Experiment Platform, 2017.9, Journal of Shanghai University of Engineering Science</li> <li>• Common Failure Analysis and Discussion in Electrotechnical Experiments, Research and Exploration in Laboratory, 2015.9</li> <li>• Design of Microcontroller-based control system for energy-saving lamps, Industry and Technology Forum, 2015.3</li> </ul>



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<b>Activity in professional associations within the last 5 years</b>	<ul style="list-style-type: none"><li>● In 2016, tutored students for the “Shanghai Creativity Cup” competition, second prize at the provincial and municipal level</li><li>● In 2016, tutored for the Shanghai Mechanical Engineering Innovation Competition, second prize at the provincial and municipal level</li><li>● In 2017, tutored students for the 6th Shanghai Mechanical Engineering Innovation Competition, second prize at the provincial and municipal level</li><li>● In 2019, tutored students for the 14th National University Students "NXP" Cup Smart Vehicle Competition, second prize in the four-wheel category for East China Region</li></ul>
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