

# ACADEMIC TEAM



## CAO HONGRUI 曹宏瑞

Email:chr@mail.xjtu.edu.cn

Home Page:<http://gr.xjtu.edu.cn/web/hrcao/home>

### Research area or direction

Intelligent spindle vibration monitoring basic theory and application technology, mechanical equipment non-stationary signal processing method and fault diagnosis technology, digital processing process condition monitoring and chatter detection, mechanical structure finite element analysis and optimization design



## CAO JUNYI 曹军义

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Home Page:<http://gr.xjtu.edu.cn/web/caojy/>

### Research area or direction

1. Mechanic/Electrical System Dynamics and Control.
2. Fundamentals of Fractional Calculus Application.
3. Vibration energy harvesting.



## ZENG QUNFENG 曾群锋

Email:qzeng@xjtu.edu.cn

Home Page:<http://gr.xjtu.edu.cn/web/xjtuchina>

### Research area or direction

1. Super-slip design and bearing technology
2. Study on Wear, Lubrication and Corrosion of Key Parts of High-end Equipment
3. Structural Design and Application of High Temperature Solid Lubrication Coating



## CHEN GUIMIN 陈贵敏

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## CHEN HUALING 陈花玲

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### Research area or direction

1. Mechanical vibration and noise control theory and technology;
2. micro-electromechanical systems (MEMS) research;



## CHEN JINGLONG 陈景龙

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### Research area or direction

1. Equipment Monitoring Information Processing and Intelligent Manufacturing
2. Nondestructive Testing and Health Assessment of Mechanical Structures
3. Dynamic Testing and Intelligent Maintenance of Mechanical Equipment

## CHEN TIANNING 陈天宁

Email: tnchen@mail.xjtu.edu.cn

### Research area or direction



Mechanical CAD / CAE technology, etc ; the mechanical design of the machine tool, cutting machine tool design and machining, Mechanical vibration analysis and control technology: vibration reduction technology of machine tool structure, active vibration control of motion string, BBD shock damping technology, new damping technology of NOPD, shock absorption shock technology of space inertial platform, industrial product dynamic environment ergonomics; , Mechanical noise analysis and control technology: acoustic properties and structural optimization of porous lightweight materials, industrial environmental noise control, noise assessment and control of electromechanical products, noise analysis and control of vehicles (NVH), optimization design of noise barriers, electromechanical products Micro-nano-structure design and preparation technology, bio-microfluidic chip technology, micro-flow structure optimization design, etc , micro-electromechanical system technology: micro-drug controlled-release system.

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## CHEN WEI 陈渭



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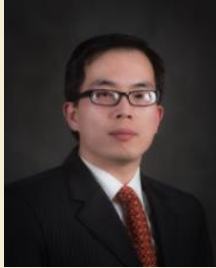
Home Page: <http://gr.xjtu.edu.cn/web/chenw>

### Research area or direction

Dynamic analysis and design of bearing rotor system; lubrication optimization and design of mechanical equipment; development of high-speed sliding bearing; lubrication failure analysis; tribological system analysis; high-speed rolling bearing analysis and design; mechanical design theory.

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## CHEN XIAOMING 陈小明



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### Research area or direction

1. Micro-nano Manufacturing Technology
  2. Flexible Electronic Devices and Systems
  3. Design and Application of Multifunctional Micro-nano Composites
  4. Design and Manufacture of Intelligent/Functional Composites
- 

## CHEN XUEFENG 陈雪峰



Email: chenxf@mail.xjtu.edu.cn

Home Page: <http://gr.xjtu.edu.cn:8080/web/chenxf>

### Research area or direction

1. Mechanical fault diagnosis and operation safety monitoring;
  2. finite element method and mechanical dynamic analysis.
-

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## CHEN YAOLONG 陈耀龙

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Home Page: <http://gr.xjtu.edu.cn/web/chenzwei>

### Research area or direction

1. High-speed and high-efficiency processing technology and equipment technology.
2. Precision/ultra-precision processing technology and equipment technology.



## CHENG WEI 成玮

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### Research area or direction

1. Deep learning and intelligent manufacturing.
2. Intelligent forecasting of major equipment faults and operation safety assurance.
3. Comprehensive evaluation and quantitative traceability of vibration and noise of mechanical system.
4. Near-field acoustic holography technology for major equipment.



## CUI JIANLEI 崔健磊

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### Research area or direction

Micro/Nano-Manipulation & Interconnect

Laser Nanofabrication

Laser Micromachining

Micro/Nano-Structures & Devices

In situ Electron Microscopy (SEM) and Atomic Force Microscopy (AFM)

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## DONG GUANGNENG 董光能



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Home Page: <http://gr.xjtu.edu.cn/web/donggn>

### Research area or direction

1. Mechanical equipment lubrication optimization and design;
  2. High-speed bearing lubrication technology;
  3. Precise machinery in the motion control of ultra-stable friction, ultra-low friction / ultra-slippery to achieve;
  4. Surface / interface micro-design and surface engineering, surface drag reduction;
  5. Automobile energy saving, emission reduction, lubrication failure analysis;
  6. Bio-fabrication of micro-nano-surface materials and tissue desorption.
- 

## DUAN YUGANG 段玉岗



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### Research area or direction

1. Fabrication equipment and process of composite fiber placement
  2. 3D Printing Technology
  3. Manufacturing Technology of New Composite Materials
- 

## FANG SUPING 方素平



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### Research area or direction

Ultra-precision detection and processing technology and equipment, optical-mechanical integration technology and equipment, intelligent measurement and control technology and system, optical precision measurement technology and equipment, etc.

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## GAO JIANMIN 高建民



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### Research area or direction

Modern Quality Engineering and Automatic Control Technology

Product reliability design and thermal design

Life Prediction and State Evaluation of Complex Products

Maintenance and Repair Technology of Large - scale Equipments and Safety of Industrial System

Manufacturing Resource Planning and Digital Manufacturing

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## GAO ZHIYONG 高智勇



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Home Page: <http://gr.xjtu.edu.cn/web/zhygao>

### Research area or direction

Manufacturing information quality control, equipment service quality control, complex electromechanical system safety reliability and maintenance technology

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## GENG HAIPENG 耿海鹏



Email:

Home Page:

### Research area or direction

Manufacturing

Elastic foil gas bearing and design;

Design, manufacture and control of high speed motors;

Research on rotor dynamics;

Multi-field coupled finite element analysis.

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## HE JIANKANG 贺健康

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### Research area or direction

1. Micro-nano 3D printing process and equipment
  2. Biological 3D printing technology and equipment
- 



## HE WEIFENG 何卫锋

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Home Page:

### Research area or direction

Laser manufacturing and remanufacturing;  
Surface engineering of parts.

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## HONG JUN 洪军

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### Research area or direction

1. Digital design and manufacturing technology
  2. Networked manufacturing technology
  3. Rapid manufacturing technology
-

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## HU QIAO 胡桥

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### Research area or direction

1. Key technology of underwater bionic robot fish
2. Underwater robot (ROV/UUV) universal platform
- 3, underwater (bionic) robot intelligent information
- 4, underwater robot mission load
5. Evaluation and prediction of health status of complex electromechanical equipment



## HUANG KE 黄科

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### Research area or direction

1. Dynamic recrystallization mechanisms of particle-containing metallic materials
2. Tailoring microstructures and mechanical properties of metallic materials during additive manufacturing



## HUANG XIEQING 黄协清

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### Research area or direction

Analysis and Control of Mechanical Noise and Vibration



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## JIA SHUHAI 贾书海

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### Research area or direction

Intelligent optical mechatronics technology, measurement and measurement technology and instrumentation, dynamic characteristics of mechanical structure, electromechanical system of micro-optics, characteristic analysis of machine tool functional parts,



## JIANG GEDONG 姜歌东

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### Research area or direction

1. Digital control and manufacturing technology.
2. Precision machinery and measurement technology;
3. Mechanical and electrical system dynamics.



## JIANG HONGQUAN 姜洪权

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### Research area or direction

1. Intelligent manufacturing and intelligent quality analysis technology;
2. Complex system service quality big data analysis and application technology;
3. Intelligent processing and application technology of visual data.

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**JIANG PINGYU 江平宇**

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**Research area or direction**

Network digital design, manufacturing and service systems engineering. Including: RFID / industrial networking and intelligent manufacturing systems, manufacturing execution systems and digital processing quality control, community manufacturing / service-oriented manufacturing, equipment products and service systems, product mass customization and collaborative design

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**JIANG ZHUANGDE 蒋庄德**

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**Research area or direction**

Micro-mechanical and electronic systems (MEMS) and nano-technology, precision measurement technology and equipment, precision machining technology and equipment, biological detection technology and instruments.

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**JIN ZHONGMIN 靳忠民**

Email: [z.jin@leeds.ac.uk](mailto:z.jin@leeds.ac.uk)

**Research area or direction**

1. Bio – tribology
  2. artificial joint design and manufacturing
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**JING WEIXUAN 景蔚萱**

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Home Page: <http://gr.xjtu.edu.cn/web/wxjing>

**Research area or direction**

- 1) micro-mechanical electronic systems (MEMS) and micro-nano-technology
  - 2) MEMS sensing technology
  - 3) micro-nano-detection technology
- 



**LEI YAGUO 雷亚国**

Email: yaguolei@mail.xjtu.edu.cn

Home Page: <http://yaguolei.gr.xjtu.edu.cn>

**Research area or direction**

1. Hybrid intelligent fault diagnosis and life prediction
  2. Mechanical system modeling and dynamic signal processing
  3. Machinery and equipment health monitoring and intelligent maintenance
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**LI BAOTONG 李宝童**

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Home Page: <http://gr.xjtu.edu.cn/web/baotong.me>

**Research area or direction**

Structural bionics and topology optimization design

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**LI BIN 李兵**

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**Research area or direction**

Precision testing technology, photoelectric detection and reverse engineering, micro-nano measurement; large size complex surface, aspheric rapid detection; nondestructive testing, high-energy beam disinfection

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**LI DICHEN 李涤尘**

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Home Page: <http://gr.xjtu.edu.cn:8080/web/dcli>

**Research area or direction**

(3D printing), biological manufacturing, composite forming

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## LI MING 李敏

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### Research area or direction

Haptic feedback

Soft robotics

Robots for stroke rehabilitation

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## LI XIAOHU 李小虎

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### Research area or direction

1. Intelligent spindle design and performance control technology
  2. Intelligent and bionic robots
  3. Operation and monitoring of complex electromechanical systems
- 



## LI XIAOLING 李晓玲

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### Research area or direction

- 1, industrial design and human-computer interaction: multi-channel human-computer interaction technology, holographic three-dimensional display technology, UI interface design and evaluation;
  - 2, industrial design and ergonomics: product design human-machine analysis, Noise);
  - 3, cockpit display and control interface ergonomics evaluation: cockpit display control system layout research and ergonomics evaluation.
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**LI YINGHONG 李应红**

**Research area or direction**

Aeroengine fault diagnosis, blade crack diagnosis and surface strengthening technology, aviation plasma flow control and propulsion technology, plasma stealth and surface hardening technology.

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**LIAN QIN 连琴**

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**Research area or direction**

(1) by material manufacturing (3D printing): process research and equipment development  
(2) bionic manufacturing / medical equipment: the implant material by the material manufacturing technology

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**LIANG JIN 梁晋**

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**Research area or direction**

Mechanical engineering, material mechanics, image processing and other interdisciplinary optical-mechanical-electrical integration

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## LIANG LIN 梁霖

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### Research area or direction

1. Intelligent sensor detection technology and system;
2. Equipment big data visual monitoring;
3. Brain-computer interface and intelligent signal processing technology;
4. Predictive maintenance and optimized operation of intelligent machines



## LIANG QINGXUAN 梁庆宣

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[liangqx728@163.com](mailto:liangqx728@163.com)

Home Page: <http://gr.xjtu.edu.cn/web/liangqx728>

### Research area or direction

Structural function integrated design and 3D printing manufacturing;  
High-end materials and equipment for metamaterial structures.



## LIN JING 林京

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### Research area or direction

Mechanical testing and signal analysis, mechanical fault diagnosis, structural health monitoring, intelligent manufacturing, mechanical and electrical system reliability

# ACADEMIC TEAM



**LIU HENG 刘恒**

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**Research area or direction**

Areas: Mechanical Design and Theory and Mechatronics

Direction: rotor dynamics, sliding / rolling / electromagnetic bearing design and simulation; mechanical vibration / stiffness / stress / temperature rise test, vibration active control.



**LIU HONGZHONG 刘红忠**

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**Research area or direction**

Micro - nano manufacturing equipment and technology

Manufacture of organic optoelectronic devices



**LIU YAXIONG 刘亚雄**

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**Research area or direction**

(3D printing); biomaterial 3D printing and medical repair works



# ACADEMIC TEAM



## LIU ZHIGANG 刘志刚

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### Research area or direction

Large-scale precision measurement, laser interferometry and devices, precision mechanical system assembly and testing



## LOUYANSHAN 娄燕山

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### Research area or direction

1. Forming technology and lightweight design of advanced metals
2. Yield function and ductile fracture: experiment design, modeling and numerical application
3. Application of advanced constitutive models in design of forming processes and lightweight construction



## LU BINGHENG 卢秉恒

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### Research area or direction

(3D printing), CNC equipment in the intelligent manufacturing, micro-nano manufacturing, biological manufacturing

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**LU ZHONGLIANG 鲁中良**

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**Research area or direction**

Advanced manufacturing technology for aerospace critical components, 3D printing equipment and processes

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**MAO JUNHONG 毛军红**

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**Research area or direction**

1. Design of Ultra - precision Equipment Based on Tribology
  2. Wear-on-line oil monitoring technology and its application in equipment life-cycle design
  3. Precise Motion Control
- 



**MAO SHIMIN 毛世民**

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**Research area or direction**

- 1) high-precision complex surface NC machining and quality control;
  - 2) precision large-scale gear CNC machining technology and equipment
-

# ACADEMIC TEAM

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**MEI XUESONG 梅雪松**

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**Research area or direction**

- (1) high-speed, high-precision electromechanical system control
  - (2) high energy beam laser processing technology
- 



**PENG NIANCAI 彭年才**

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**Research area or direction**

Life science detection and analysis instruments, medical instrument new technology, biochemical detection micro-system and micro-nano biological systems, pathogens and food pathogens rapid detection, microfluidics and micro-whole analysis system.

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## SHAO JINYOU 邵金友

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### Research area or direction

1. Nanoimprint and nano transfer technology
  2. Flexible sensing and robot
  3. Micro energy collection and storage
  4. Micro-nano manufacturing process and equipment
- 



## SHI XIAOJUN 史晓军

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### Research area or direction

1. Equipment thermal reliability analysis and thermal optimization design
  2. High-speed high-precision machine tools and their key components thermal characteristics optimization technology
  3. MEMS micro-cooling technology
  4. High temperature turbine blade cooling technology
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# ACADEMIC TEAM

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**SU WENBIN 苏文斌**

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**Research area or direction**

- 1, mechanical and electrical liquid control technology;
  - 2, advanced forming technology and manufacturing process simulation optimization;
  - 3, machine vision and three-dimensional full-field test technology;
  - 4, complex system intelligent monitoring and diagnosis.
- 



**SUN YANHUA 孙岩桦**

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**Research area or direction**

Electromechanical control, magnetic levitation technology, flexible foil bearing, rotor dynamics

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**TAO TANGFEI 陶唐飞**

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**Research area or direction**

1. Image processing / machine vision technology for intelligent manufacturing;
  2. Ultrasonic defrosting technology;
  3. Ultrasound based detection and diagnosis technology.
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## **TAO TAO 陶涛**

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### **Research area or direction**

- (1) Embedded digital control technology
  - (2) Electric vehicle control
- 



## **TIAN BIAN 田边**

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### **Research area or direction**

MEMS micro-nano sensor and test technology

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## **TIAN XIAOYONG 田小永**

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Home Page: <http://gr.xjtu.edu.cn/web/leoxyt>

### **Research area or direction**

- 1) functional, structural integration of innovative design and 3D printing, such as metamaterials, super-surface, the new microwave devices
  - 2) Multi-material, composite materials, 3D printing (by material manufacturing) technology and its application
  - 3) ceramic 3D printing (by material manufacturing) technology and its application
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## WANG FU 王富

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### Research area or direction

1. 3D printing rapid prototyping technology
  2. Directional solidification technology
  3. Light metal forming process
- 



## WANG HAIRONG 王海容

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### Research area or direction

1. MEMS and nanotechnology;
  2. Ultra-precision machining technology
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# ACADEMIC TEAM

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## WANG JING 王晶

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### Research area or direction

1. Brain-computer interface technology
  2. Stroke rehabilitation robot
  3. Fatigue driving early warning
- 



## WANG KEDIAN 王恪典

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### Research area or direction

1. Efficient precision machining technology and equipment
  2. Mechanical design and CAD
  3. Electromechanical system computer control
-



# ACADEMIC TEAM

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## WANG LIZHONG 王立忠

Email: [wnaglz@mail.xjtu.edu.cn](mailto:wnaglz@mail.xjtu.edu.cn)

### Research area or direction

- 1, advanced forming technology;
  - 2, machine vision and three-dimensional full-field test technology;
  - 3, near net processing and process simulation and control;
  - 4, precision plastic molding process and mold design
- 



## WANG LI 王莉

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Home Page: <http://gr.xjtu.edu.cn/web/wanglime/1>

### Research area or direction

- 1.Nano- & micro- scale surface sciences and engineering
  - 2.Micro- & nano- equipment and manufacturing technology
  - 3.Precision machinery and Measurement technology
  - 4.Additive Manufacturing (3D Printing)
- 



## WANG LING 王玲

Email: [menlwang@mail.xjtu.edu.cn](mailto:menlwang@mail.xjtu.edu.cn)

Home Page: <http://gr.xjtu.edu.cn/web/april/1>

### Research area or direction

Biomechanics, bio-tribology; finite element analysis; tissue engineering; nutrient mass transfer, artificial joint friction and abrasion (3D printing) technology, bio-3D printing and medical restoration engineering

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# ACADEMIC TEAM

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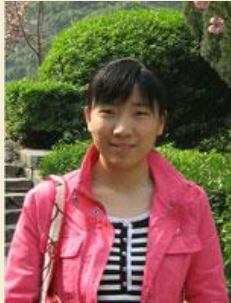
**WANG SUNAN 王孙安**

Email: sawang@mail.xjtu.edu.cn

**Research area or direction**

Intelligent mobile robot and its key technology research;  
Computer and intelligent monitoring of electromechanical systems and industrial processes;  
Computer Data Analysis and Intelligent Monitoring for Industrial Field.

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**WANG WENJUN 王文君**

Email: wenjunwang@mail.xjtu.edu.cn

**Research area or direction**

1. High-energy beam micro-machining theory and application;
  2. Micro-machining theory and application
- 



**WANG XIAOPENG 王小鹏**

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Home Page: <http://gr.xjtu.edu.cn/web/xpawang>

**Research area or direction**

1. Acoustic superstructure/metamaterial research,
  2. Mechanical dynamics,
  3. Vibration and noise control.
-

# ACADEMIC TEAM



## WANG YONGQUAN 王永泉

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### Research area or direction

Dynamic Analysis and Design of New Electro-Active Smart Materials and Software Mechanisms, Mechanical Structures, Analysis and Design of Micro-Electro-Mechanical Systems (MEMS), Vibration and Noise Control



## WANG YU 王煜

Email: [mywang2020@gmail.com](mailto:mywang2020@gmail.com)

Home Page:

### Research area or direction

1. Advanced Manufacturing Technology;
2. Vibration control;
3. Microelectronics manufacturing equipment;
4. Calculation design;



## WANG ZHAO 王昭

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### Research area or direction

Optical Measurement and Optical Information Processing

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**WANG ZHAOHUI 王朝晖**

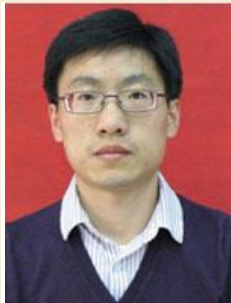
Email: [chhw@mail.xjtu.edu.cn](mailto:chhw@mail.xjtu.edu.cn)

Home Page: <http://gr.xjtu.edu.cn/web/chhw>

**Research area or direction**

Industrial robots, precision measurement and control equipment for biochemical applications of micro-mechanical electronic systems

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**WEI XUEYONG 韦学勇**

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**Research area or direction**

- 1, micro / nano mechanical and electronic systems and sensor testing technology
  - 2, microfluidic chip and nano-bio-engineering technology
- 



**WEI ZHENGYING 魏正英**

Email: [zywei@mail.xjtu.edu.cn](mailto:zywei@mail.xjtu.edu.cn)

Address: Xi'an Jiaotong University School of Mechanical Engineering 710049

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**Research area or direction**

Digital product development and rapid manufacturing, rapid manufacturing of digital and information systems, rapid prototyping and mold manufacturing, microfluidic device design and manufacturing.

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# ACADEMIC TEAM



**WEN GUANGRUI 温广瑞**

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**Research area or direction**

1. Mechanical system fault diagnosis and state prediction
2. Mechanical system dynamic signal processing and intelligent instrument development
3. Mechanical equipment life cycle health monitoring and intelligent maintenance



**WU CHENGJUN 吴成军**

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Home Page: <http://gr.xjtu.edu.cn:8080/web/cjwu>

**Research area or direction**

- (1) mechanical structure of acoustic vibration analysis and control;
- (2) computational fluid dynamics (CFD) and computational aerodynamic acoustics (CAA) numerical simulation and structural optimization;
- (3) particle damping modeling and application



**WU JIUHUI 吴九汇**

Email: [ejhwu@mail.xjtu.edu.cn](mailto:ejhwu@mail.xjtu.edu.cn)

Home Page: <http://ejhwu.gr.xjtu.edu.cn/>

**Research area or direction**

- 1) vibration and noise control;
- 2) photonic crystal / phononic crystal theory and applied research;
- 3) nanomechanics.

# ACADEMIC TEAM

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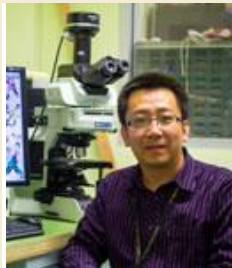
**WU YUN 吴云**

Email: wuyun1223@126.com

Home Page:

**Research area or direction**

1. Plasma flow control and ignition combustion
  2. Plasma pneumatic and combustion actuator manufacturing
- 



**WU TONGHAI 武通海**

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Home Page: <http://gr.xjtu.edu.cn/web/tonghaiwu>

**Research area or direction**

- (1) the theory and method of machine health state evolution and decay;
  - (2) embedded oil sensor technology;
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# ACADEMIC TEAM

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**XU GUANGHUA 徐光华**

Email: xugh@mail.xjtu.edu.cn

**Research area or direction**

Network monitoring and diagnosis technology, computer virtual instrument, mechanical signal processing and artificial intelligence applications.

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**XUJUN 徐俊**

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**Research area or direction**

1. Electric vehicle energy management technology,
  2. Electromechanical system control.
-

# ACADEMIC TEAM



## YAN RUQIANG 严如强

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### Research area or direction

1. Deep learning and intelligent manufacturing
2. A new generation of artificial intelligence and sensing
3. Biomedical signal detection and instrumentation
4. Intelligent sensing and information processing



## YAN KE 闫柯

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### Research area or direction

1. Lubrication theory of mechanical systems and cutting-edge lubrication technology
2. Pore and oil droplet regulation mechanism of porous oil-containing materials
3. New enhanced heat transfer theory and application technology
4. Rolling bearing intelligent monitoring and efficient lubrication technology



## YANG QING 杨青

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### Research area or direction

1. Femtosecond laser micro-nano manufacturing
2. Laser bionic micro-nano manufacturing
3. Ultrafast photonics
4. Micro-nanophotonics



# ACADEMIC TEAM



## **YANG SHUMING 杨树明**

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### **Research area or direction**

1. Micro- and Nano-Electromechanical Systems (MEMS/NEMS)
2. Optical Measurement Technology and Equipments
3. Ultra-precision Machining and Measurement Technology



## **YANG ZHIBO 杨志勃**

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### **Research area or direction**

1. Aviation engine health management;
2. Mechanical structure health monitoring;
3. Mechanical fault diagnosis;
4. Wavelet finite element method.



## **YAO YIYONG 要义勇**

Email: [yyyao@mail.xjtu.edu.cn](mailto:yyyao@mail.xjtu.edu.cn)

### **Research area or direction**

Robotics, intelligent control technology, electro-hydraulic servo system technology, electromechanical integration technology, production line network control technology, advanced manufacturing technology of production line, field bus control engineering technology, product quality assurance technology, manufacturing information engineering technology and embedded measurement and control technology.

# ACADEMIC TEAM

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**YU DEHONG 于德弘**

Email: dhyu@mail.xjtu.edu.cn

**Research area or direction**

Near net processing technology and manufacturing process simulation and control (mechanical engineering); mechanical and electrical systems and industrial processes of computer intelligent control (mechanical engineering)

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**YUAN XIAOYANG 袁小阳**

Email: xyyuan@mail.xjtu.edu.cn

**Research area or direction**

His research interests include: 66 rotor system simulation, monitoring and diagnosis; control of wear and fatigue; 67 coupling of wear model and multibody system; 68 modern design theory, technology and application.

Professor Yuan Xiaoyang's research direction is 09 micro magnetic levitation artificial heart, high temperature superconducting magnetic levitation technology; also mechanical design and theory of professional instructors.

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**ZHANG DAWEI 张大伟**

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**Research area or direction**

1. Advanced forming technology and equipment
  2. Forming process modeling and control
-

# ACADEMIC TEAM

## ZHANG ANFENG 张安峰



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### Research area or direction

(1) the material by manufacturing (Additive Manufacturing, AM), commonly known as: 3D printing (3D Printing, 3DP) technology and equipment Ultra - fine directional crystal technology and its engineering application technology

(2) high-performance metal parts by the material manufacturing technology and engineering application technology by the material manufacturing high-temperature alloys

(3) the production of high-temperature materials

## ZHANG JINHUA 张进华



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Home Page: <http://gr.xjtu.edu.cn/web/jjshua>

### Research area or direction

Software Robot Technology:

1, software robot "drive - structure - sensor" integration design,

2, software robot kinematics analysis,

3, software rehabilitation robot design

Machine tool and its components digital design theory:

1, rolling bearing nonlinear modeling and service performance analysis,

2, spindle dynamic and static analysis

## ZHANG JUN 张俊



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Home Page: <http://gr.xjtu.edu.cn/web/junzhang>

### Research area or direction

High-speed machine tool cutting dynamics; high-speed / ultra-high-speed processing mechanism; high-speed and efficient processing technology and tool technology; intelligent manufacturing and machine tools

# ACADEMIC TEAM

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## ZHANG LIUYANG 张留洋

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Home Page: <http://gr.xjtu.edu.cn/web/liuyangzhang>

### Research area or direction

1. Micro-nano structure design and manufacturing;
  2. Biomimetic structure design and performance analysis;
  3. Ultra-precision machining process and mechanism;
  4. Single molecule optical measurement technology.
- 



## ZHANG LU 张璐

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### Research area or direction

1. Bio-optical information detection and disease prediction
  2. Bio-optical micro-nano system design and development
  3. POC integrated medical instrument design and development
  4. Industrial intelligent optical detection methods
- 



## ZHANG QI 张琦

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### Research area or direction

1. Advanced forming technology;
  2. Electromechanical liquid system computer monitoring
-

# ACADEMIC TEAM



## ZHANG QING 张庆

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### Research area or direction

1. Electromechanical system dynamic performance test
2. Electromechanical system condition monitoring and fault diagnosis
3. Intelligent signal processing



## ZHANG XINING 张西宁

Email: zhangxining@mail.xjtu.edu.cn

Home Page: <http://gr.xjtu.edu.cn:8080/web/zhangxining>

### Research area or direction

Mechanical status monitoring and fault diagnosis; rotor balancing and online automatic balance; monitoring and diagnosis system and equipment; equipment health monitoring and intelligent maintenance



## ZHANG XIAODONG 张小栋

Email: xdzhang@mail.xjtu.edu.cn

Address: 710049 Xianning City, Shaanxi Province, Xianning West Road on the 28th Xi'an Jiaotong University School of Mechanical Engineering

Home Page: <http://gr.xjtu.edu.cn:8080/web/amct>

### Research area or direction

Intelligent detection, diagnosis and control, intelligent robot technology

# ACADEMIC TEAM

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**ZHANG XINGWU 张兴武**

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Home Page: <http://gr.xjtu.edu.cn/web/xwzhang>

**Research area or direction**

1. Active control of major equipment vibrations;
  2. Advanced sensing and health management of aviation engines;
  3. Wavelet finite element and dynamics analysis.
- 



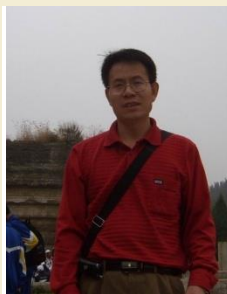
**ZHANG YINGJIE 张英杰**

Email: [yjzhang@mail.xjtu.edu.cn](mailto:yjzhang@mail.xjtu.edu.cn)

Home Page: <http://gr.xjtu.edu.cn:8080/web/yjzhang>

**Research area or direction**

- (1) CAD / CAPP / CAM
  - (2) NC machining optimization and cutting simulation
  - (3) 3D measurement and measurement data processing
  - (4) computer graphics and image processing;
- 



**ZHANG ZHOUSUO 张周锁**

Email: [zzs@mail.xjtu.edu.cn](mailto:zzs@mail.xjtu.edu.cn)

Home Page: <http://gr.xjtu.edu.cn/web/zzs>

**Research area or direction**

Machinery and equipment condition monitoring and fault diagnosis; mechanical vibration and noise reduction and control; equipment failure prediction and life prediction; structural dynamic analysis and state detection.

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# ACADEMIC TEAM

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## **ZHAO HONG 赵宏**

Email: [zhaohong@mail.xjtu.edu.cn](mailto:zhaohong@mail.xjtu.edu.cn)

Home Page: <http://gr.xjtu.edu.cn/web/zhaohong>

### **Research area or direction**

Optical three-dimensional measurement, intelligent photoelectric detection, real-time online testing and robot vision technology, optical fiber biological information detection, biological tissue imaging technology.

---

## **ZHAO LIPING 赵丽萍**

Email: [lipingzh@mail.xjtu.edu.cn](mailto:lipingzh@mail.xjtu.edu.cn)

Home Page: <http://gr.xjtu.edu.cn/web/lipingzh>

### **Research area or direction**

1. Modern product quality control engineering
  2. Manufacturing Information Engineering
  3. Networked digital manufacturing and service manufacturing system engineering
  4. Integrated CAD / CAPP / CAM and manufacturing process optimization
-

# ACADEMIC TEAM



## ZHAO LIBO 赵立波

Email: libozhao@mail.xjtu.edu.cn

Personal Home Page: <http://gr.xjtu.edu.cn/web/libozhao/>

### Research area or direction

- (1) micro-mechanical electronic systems (MEMS) and micro-nano technology;
- (2) MEMS sensor technology;
- (3) precision measurement technology



## ZHAO SHENGDUN 赵升吨

Email: sdzhao@mail.xjtu.edu.cn

Contact Address: Xi'an Jiaotong University School of Mechanical Engineering

### Research area or direction

Computer control of mechanical, electrical and hydraulic systems; artificial intelligence and intelligent control; green fluid transmission system and control; special precision forming of ultrasonic and semi-solid; vibration and noise control; micro-nano forming



## ZHAO WANHUA 赵万华

Email: whzhao@mail.xjtu.edu.cn

Home Page: <http://gr.xjtu.edu.cn/web/whzhao>

### Research area or direction

Mainly engaged in high-speed ultra-high-speed processing technology and equipment, 3D printing technology research, focusing on high-speed machine tools and complex mechanical and electrical equipment in the mechanical and electrical coupling mechanism and mechanical and electrical integration design method.



# ACADEMIC TEAM



## ZHAO YULONG 赵玉龙

Email: zhaoyulong@mail.xjtu.edu.cn

Address: Precision Engineering and Optical Testing Technology Institute

### Research area or direction

MEMS technology, sensor technology and micro-nano manufacturing areas of basic theory and engineering applications



## ZHOU GUANGHUI 周光辉

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### Research area or direction

1. Service-oriented network of digital manufacturing technology
2. Complex mechanical and electrical products collaborative optimization design
3. Discrete workshop manufacturing execution system of high-performance low-carbon operation theory and methods



## ZHOU XIANG 周翔

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### Research area or direction

- (1) optical three-dimensional measurement;
- (2) industrial-line three-dimensional sensor;
- (3) three-dimensional robot vision navigation

# ACADEMIC TEAM

## ZHU AIBIN 朱爱斌



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### Research area or direction

1. Electromechanical fusion and intelligent robot technology
2. Helping the elderly with disabilities and intelligent rehabilitation technology
3. Exoskeleton robot
4. Rehabilitation robot
5. Bionic robot
6. Innovative design
7. Bionic design.

## ZHU YONGSHENG 朱永生



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### Research area or direction

- (1) bearing service state modeling and bearing testing technology
- (2) equipment operating condition monitoring, evaluation and forecasting technology

## ZHUANG JIAN 庄健



Email: zhuangjian@mail.xjtu.edu.cn

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### Research area or direction

- (1) embedded measurement and control technology of electromechanical systems;
- (2) micro-nano imaging detection technology;

# ACADEMIC TEAM

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## **ZI YANYANG 訾艳阳**

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Home Page: <http://gr.xjtu.edu.cn:8080/web/ziyy>

### **Research area or direction**

Mechanical equipment condition monitoring and fault diagnosis, composite material health monitoring, equipment reliability analysis and life prediction, multi-scale dynamics, flexible sensor design, structural dynamic analysis and dynamic design

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