

# 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



## CHEN HUALING 陈花玲

Email: hlchen@mail.xjtu.edu.cn

### Research area or direction

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

## 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.



# ACADEMIC TEAM

## CHEN WEI 陈渭



Email: chenw@mail.xjtu.edu.cn

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 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.
- 

## DONG GUANGNENG 董光能



Email: donggn@mail.xjtu.edu.cn donghxxjtu@126.com

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.

# ACADEMIC TEAM

## GAO JIANMIN 高建民



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

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

### 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



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

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

### Research area or direction

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

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## HE JIANKANG 贺健康



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

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

### Research area or direction

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

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## HONG JUN 洪军

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

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

### Research area or direction

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



## HUANG XIEQING 黄协清

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

### Research area or direction

Analysis and Control of Mechanical Noise and Vibration

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## JIA SHUHAI 贾书海

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

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

### 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,

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## JIANG GEDONG 姜歌东

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

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

### Research area or direction

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



## JIANG PINGYU 江平宇

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

### 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

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

### 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.

# ACADEMIC TEAM



**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



**JING MINQIN 景敏卿**

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

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

**Research area or direction**

Mechanical and electronic engineering, complex electromechanical monitoring and system integration technology, electromagnetic levitation technology, electric wheel drive technology, power equipment test technology research, rotor system dynamics and control, modern measurement and control theory and technology.



**JING WEIXUAN 景蔚萱**

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

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

# ACADEMIC TEAM



**LEI YAGUO 雷亚国**

Email: [yaguolei@mail.xjtu.edu.cn](mailto: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
- 



**LI BIN 李兵**

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

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

**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**

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

Home Page: [http://gr.xjtu.edu.cn:8080 / web / dcli](http://gr.xjtu.edu.cn:8080/web/dcli)

**Research area or direction**

(3D printing), biological manufacturing, composite forming



# ACADEMIC TEAM

## LI XIAOLING 李晓玲



Email: xjtulxl@mail.xjtu.edu.cn

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

### 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



Email: lqiamt@mail.xjtu.edu.cn

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

### 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



# ACADEMIC TEAM



**LIANG JIN 梁晋**

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

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

**Research area or direction**

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

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**LIN JING 林京**

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

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

**Research area or direction**

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

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**LIU HENG 刘恒**

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

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

**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.

# ACADEMIC TEAM



**LIU HONGZHONG 刘红忠**

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

**Research area or direction**

Micro - nano manufacturing equipment and technology

Manufacture of organic optoelectronic devices

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**LIU YAXIONG 刘亚雄**

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

Address: Xi'an Jiaotong University Qujiang Campus West B423 (State Key Laboratory of Machinery Manufacturing Systems Engineering)

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

**Research area or direction**

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

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**LIU ZHIGANG 刘志刚**

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

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

**Research area or direction**

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

# ACADEMIC TEAM



**LU BINGHENG 卢秉恒**

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

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

**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**

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

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

**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**

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

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

**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

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**MAO SHIMIN 毛世民**

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

Personal Home Page: <http://gr.xjtu.edu.cn/web/maosm-mail.xjtu.edu.cn>

**Research area or direction**

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



**MEI XUESONG 梅雪松**

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

**Research area or direction**

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



**MENG QINGFENG 孟庆丰**

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

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

**Research area or direction**

Mechanical signal analysis, fault diagnosis and state prediction; wireless sensor network measurement technology and application; micro-processing of information detection and quality control; micro-power generation and energy harvesting technology

# ACADEMIC TEAM



**PENG NIANCAI 彭年才**

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

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

**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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**SU WENBIN 苏文斌**

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

**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**

Tel: [sunyanhua@mail.xjtu.edu.cn](mailto:sunyanhua@mail.xjtu.edu.cn)

Email: <http://gr.xjtu.edu.cn/web/sunyanhua>

**Research area or direction**

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

# ACADEMIC TEAM



## TAO TAO 陶涛

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

Home Page: <http://mt.xjtu.edu.cn>

### Research area or direction

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



## TIAN XIAOYONG 田小永

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

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



## WANG HAIRONG 王海容

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

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

Home Page: [whairong@mail.xjtu.edu.cn](mailto:whairong@mail.xjtu.edu.cn)

### Research area or direction

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

# ACADEMIC TEAM



**WANG JING 王晶**

Email: wangpele@gmail.com

Home Page: <http://gr.xjtu.edu.cn/web/wangpele666>

**Research area or direction**

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



**WANG KEDIAN 王恪典**

Email: kdwang@mail.xjtu.edu.cn

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

**Research area or direction**

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



**WANG LIDING 王立鼎**

Email: wangld@dlut.edu.cn

**Research area or direction**

Precision machinery and micro-nano mechanical



# ACADEMIC TEAM



**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 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



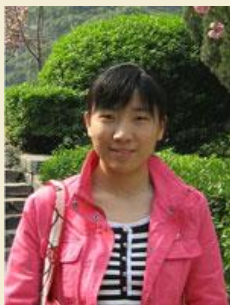
**WANG SUNAN 王孙安**

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

# ACADEMIC TEAM



**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 YONGQUAN 王永泉**

Email: yqwang@mail.xjtu.edu.cn

Home Page: [http://gr.xjtu.edu.cn/web/wang\\_yq/home](http://gr.xjtu.edu.cn/web/wang_yq/home)

**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 ZHAO 王昭**

Email: wangzhao@mail.xjtu.edu.cn

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

**Research area or direction**

Optical Measurement and Optical Information Processing

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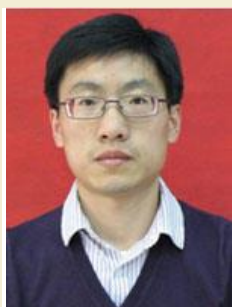
**WANG ZHAOHUI 王朝晖**

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



**WEI XUEYONG 韦学勇**

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

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

**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

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

**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.

# ACADEMIC TEAM



**WEN GUANGRUI 温广瑞**

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

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

**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**

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

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**

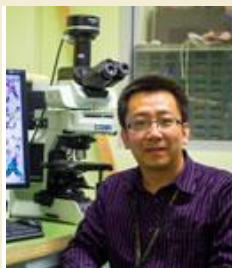
Email: [ejhwu@mail.xjtu.edu.cn](mailto:ejhwu@mail.xjtu.edu.cn)

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



**WU TONGHAI 武通海**

Email: wt-h@163.com

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;



**XIE YUBAI 谢友柏**

Email: ybxie@mail.xjtu.edu.cn

**Research area or direction**

In the face of tribology, the subject of extensive knowledge in the areas of lubrication, wear, morphology, rheology, heat transfer, vibration, materials, technology, monitoring, control, reliability, knowledge acquisition, databases, expert systems Carried out theoretical and practical research, and made progress.



**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.

# ACADEMIC TEAM



**XU HUA 徐华**

Email: xuhua@mail.xjtu.edu.cn

**Research area or direction**

Mechanical design, lubrication theory and bearing technology, rotor-bearing system dynamics, tribology, sealing system and its dynamics, mechanical and electrical engineering.

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**YANG SHUMING 杨树明**

Email: shuming.yang@mail.xjtu.edu.cn

Home Page: [http://gr.xjtu.edu.cn/web/shuming\\_yang](http://gr.xjtu.edu.cn/web/shuming_yang)

**Research area or direction**

- 1, micro-mechanical and electrical systems (MEMS / NEMS)
  - 2, optical measurement technology and equipment
  - 3, ultra-precision machining and measurement technology
- 



**YAO YIYONG 要义勇**

Email: 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



**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)



**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.



**ZHANG ANFENG 张安峰**

Email: zhangaf@mail.xjtu.edu.cn

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

**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



# ACADEMIC TEAM

## ZHANG JINHUA 张进华



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

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



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

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

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## ZHANG LU 张璐



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

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

### 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

# ACADEMIC TEAM



**ZHANG QI 张琦**

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

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

**Research area or direction**

1. Advanced forming technology;
  2. Electromechanical liquid system computer monitoring
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**ZHANG QING 张庆**

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

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

**Research area or direction**

1. Electromechanical system dynamic performance test
  2. Electromechanical system condition monitoring and fault diagnosis
  3. Intelligent signal processing
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**ZHANG XINING 张西宁**

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

Home Page: [http://gr.xjtu.edu.cn:8080 / web / zhangxining](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

# ACADEMIC TEAM



## ZHANG XIAODONG 张小栋

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

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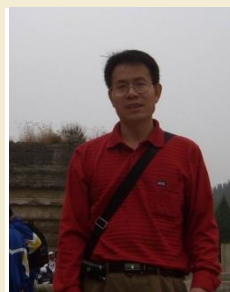
## ZHANG YINGJIE 张英杰

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;
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## 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.

# ACADEMIC TEAM



**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.

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**ZHAO HUIYING 赵惠英**

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

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

**Research area or direction**

Precision ultra-precision measurement technology and instruments

Precision ultra-precision machining technology and equipment

High-precision grating mother board development

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**ZHAO LIBO 赵立波**

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

# ACADEMIC TEAM



## **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

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## **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.

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## **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

# ACADEMIC TEAM



**ZHOU GUANGHUI 周光辉**

Email: ghzhou@mail.xjtu.edu.cn

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

**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
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**ZHOU XIANG 周翔**

Email: zhouxiang@xjtu.edu.cn

Contact Address: Xian Xian Xi Road, Xi'an, Shaanxi Province Xi'an Jiaotong University

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

**Research area or direction**

- (1) optical three-dimensional measurement;
  - (2) industrial-line three-dimensional sensor;
  - (3) three-dimensional robot vision navigation
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**ZHU YONGSHENG 朱永生**

Email: yszhu@mail.xjtu.edu.cn

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

**Research area or direction**

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

# ACADEMIC TEAM

## ZHUANG JIAN 庄健



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

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

### Research area or direction

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

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## ZI YANYANG 訾艳阳



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

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