# 英文版导师简介 电气工程学院



LIANG Deliang

Professor

Department: Electric Machinery

Research Area(s):

1: Control and simulation of servo systems

2: New principle electromagnetic theory and CAD

technology

3: Analysis and implementation of electromagnetic

devices and systems

4: Theory and control of special motor

electromagnetic

5: Motor technology in new energy power generation

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WANG Shuhong

Professor

Department: Electric Machinery

Research Area(s):

1: Theory, numerical analysis methods and software techniques for circuits, electromagnetic fields and

multi physics

2: Design, simulation and optimization of electrical

energy conversion and transmission equipment and

special electromagnetic devices

3: Modeling and simulation of electromagnetic

properties of advanced electrical materials

(superconducting materials, magnetic materials, etc.)

4: Application of superconducting power technology

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	DING Wen
	Associate Professor
	Department: Electric Machinery
	Research Area(s):
	1: Switched reluctance motor for aviation/electric
	vehicles and its control technology
	2: Special motor (flux switching motor, synchronous
	reluctance motor, etc.) and its control technology
	3: Permanent magnet synchronous motor, brushless
	DC motor and its control technology
	4: Simulation and implementation of high efficiency
	motor and its control system
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	LIU Xinzheng
	Associate Professor
(8.8)	Department: Electric Machinery
	Research Area(s):
	1: Design and simulation analysis of special motors
	and their control systems
<b>M</b>	2: Computer control technology of the motors
	3: Wind power generation system
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	GAO Lin
	Associate Professor
120	Department: Electric Machinery
	Research Area(s):
	1: Design and drive control of servo motor
1 to 10	2: Monitor of motor temperature rise
	3: High efficiency and energy conservation motor
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	LOU Jianyong
	Associate Professor
	Department: Electric Machinery
0	Research Area(s):
6	1: Numerical analysis and motor optimization design
	of electromagnetic devices
	2: Theory, operation and control of special motors
	3: Aviation start, power generation system and wind
	power generation technology
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## LIU Ling

Associate Professor

Department: Electric Machinery

Research Area(s):

- 1: Nonlinear circuit design
- 2: Intelligent control and application
- 3: Analysis and control of motor
- 4: Analysis of chaos and bifurcation

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## **KOU** Pena

Associate Professor

Department: Electric Machinery

Research Area(s):

- 1: New energy generation and smart microgrid
- 2: Advanced motor control
- 3: Predictive control and intelligent control

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## DU Jinhua

Associate Professor

Department: Electric Machinery

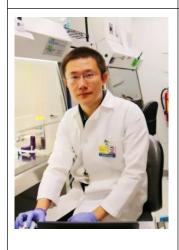
Research Area(s):

- 1: Wave power generation motor and drive control system
- 2: Hybrid vehicle motor and drive control system
- 3: Wind power motor and drive control system
- 4: Design and parameter analysis technology of

transformer

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## **ZHANG Naming**

Lecturer

Department: Electric Machinery

Research Area(s):

- 1: Theoretical and numerical analysis methods for
- multi-physics of motors
- 2: Theoretical and experimental research on the effect
- of electromagnetic field on biological cells
- 3: Modeling and measurement of electromagnetic properties of advanced electrical materials (magnetic materials, biomaterials, etc.)
- 4: Simulation and Experimental Study on Plasma Effect of Metal Nanomaterials

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**DUAN Nana** 

Associate Professor

Department: Electric Machinery

Research Area(s):

1: Theory, numerical analysis methods and software techniques for circuits, electromagnetic fields and multiphysics

2: Modeling and simulation of electromagnetic properties of advanced electrical materials (superconducting materials, magnetic materials, etc.)

3: Application of superconducting power technology

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JIA Shaofeng

Lecturer

Department: Electric Machinery

Research Area(s):

1: Theoretical and design study of magnetic field modulated permanent magnet motor and reluctance motor

2: Research on new energy automobile motor drive system

3: Research on new high-power motors such as wind power, ship propulsion and rail transit

4: Research on electromagnetic theory and control of special motors

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WANG Jianhua

Professor

Department: Electric Apparatus

Research Area(s):

1: Theory and technology of intelligent electric apparatus

2: Vacuum arc theory and vacuum appliances

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RONG Mingzhe

Professor

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Research Area(s):

1: Electrical arc physics and electrical contact theory

2: Theory and technology of intelligent electric

apparatus

3: Discharge plasma and its application

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**GENG Yingsan** 

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Research Area(s):

1: Theory and technology of intelligent electric

apparatus

2: Computer aided design and simulation of electric

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XIU Shixin

Professor

Department: Electric Apparatus

Research Area(s):

1: Vacuum arc theory and application

2: Electrical test and fault diagnosis technology

3: Simulation analysis of electric apparatus

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JIA Shenli

Professor

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Research Area(s):

1: Arc plasma and its application

2: New switch technology

3: Pulse power plasma

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SONG Zhengxiang

Professor

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Research Area(s):

1: Theory and technology of intelligent electric

apparatus

2: Computer aided design and simulation of electric

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3: Digital circuit fault diagnosis

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LIU Zhiyuan

Professor

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Research Area(s):

1: High voltage level vacuum circuit breaker

technology

2: Vacuum Arc Theory

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WANG Lijun

Professor

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Research Area(s):

1: Arc theory and its application

2: Simulation and testing technology related to new

power switchgear

3: Discharge plasma technology and its application

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SHI Zongqian

Professor

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Research Area(s):

1: Vacuum arc theory and its application

2: Large-capacity DC interruption technology

3: Discharge plasma and its application

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WU Yi Professor

Department: Electric Apparatus

Research Area(s):

1: DC interruption technology

2: Fault current limiting technology

3: Arc electric contact theory and its application

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WANG Xiaohua

Professor

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Research Area(s):

1: Electrical testing and fault diagnosis technology

2: Theory and technology of intelligent electric

apparatus

3: Environmentally friendly switchgear design

technology

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LI Xingwen

Professor

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Research Area(s):

1: High voltage and high current

2: Pulse power and discharge plasma

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LIU Dingxin

Professor

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Research Area(s):

1: Gas discharge and plasma technology

2: Power equipment status detection and diagnosis

3: Plasma biomedical technology

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YANG Fei Professor

Department: Electric Apparatus

Research Area(s):

1: Arc electric contact theory and its application

2: DC interruption theory and application

3: Research on new switchgear and electrical

connector

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NIU Chunping

Associate Professor

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Research Area(s):

1: Design of new switchgear

2: Current limiting and interruption technology

3: Design and optimization of low voltage electric

apparatus

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ZHANG Guogang

Associate Professor

Department: Electric Apparatus

Research Area(s):

1: Theory and technology of intelligent electric

apparatus

2: Arc plasma and electrical contact

3: New energy power equipment E-mail: ggzhang@mail.xjtu.edu.cn

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**ZHANG Hang** 

Associate Professor

Department: Electric Apparatus

Research Area(s):

1: Design and research of intelligent electric apparatus

2: Design and research of embedded control system

3: Distributed control system design

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**GUO Li** 

Associate Professor

Department: Electric Apparatus

Research Area(s):

1: Biological effects of low temperature plasma on microorganisms and its molecular mechanism

2: Application of low temperature plasma in microbial

related diseases

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XU Dehui

Associate Professor

Department: Electric Apparatus

Research Area(s):

1: Atmospheric pressure cold plasma biomedical

application

2: Plasma tumor therapy

3: Plasma cell biological mechanism research

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WANG Zhenxing

Associate Professor

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Research Area(s):

1: Vacuum interrupter, plasma simulation and

diagnosis

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WU Jian

Professor

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Research Area(s):

1: Pulse discharge plasma

2: Plasma diagnostic technology

3: Z pinch

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YANG Aijun

Associate Professor

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Research Area(s):

1: Artificial intelligence technology

2: Micro-nano sensor technology

3: Power equipment fault diagnosis and life

assessment

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YAN Jing

Lecturer

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Research Area(s):

1: High voltage electrical theory and application

2: Theory and technology of intelligent electric

apparatus

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ZHANG Boya

Lecturer

Department: Electric Apparatus

Research Area(s):

1: Gas discharge phenomenon and mechanism

research

2: Study on Charge Characteristics of Solid-Air

Interface in GIS/GIL

3: SF6 alternative gas research

4: Pulse power and plasma technology

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SHI Huantong

Lecturer

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Research Area(s):

1: Pulse power technology

2: Discharge plasma diagnostic technique

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ZHANG Qiaogen

Professor

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Research Area(s):

1: Gas insulation and discharge plasma technology

2: High-power pulse technology and application

3: Insulation diagnosis and life assessment of power

equipment

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ZHANG Guanjun

Professor

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Research Area(s):

1: Power equipment condition monitoring and fault

diagnosis

2: Electrical discharge and plasma

3: Pulse power technology and application

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YANG Lanjun

Professor

Department: High Voltage

Research Area(s):

1: New power equipment

2: Pulse power technology and application

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XIE Yanzhao

Professor

Department: High Voltage

Research Area(s):

1: High-power electromagnetic environment and

electromagnetic pulse

2: Electromagnetic transient phenomena of power

system and fault diagnosis of power equipment

3: Electromagnetic compatibility theory and

experimental technology

4: Compact pulse power source and radiation physics

applications

5: Laser and fiber optic sensing

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LI Hongjie

Professor

Department: High Voltage

Research Area(s):

1: Power equipment status detection and diagnosis

2: IED, status monitoring and fault location in smart

grid

3: Life assessment of key components in pulsed power

systems

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JI Shengchang

Professor

Department: High Voltage

Research Area(s):

1: Service characteristics of power equipment and its

status assessment

2: DC system and equipment failure mechanism and

diagnosis

3: Vibration and noise control and application of AC

and DC equipment

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LI Jiangtao

Professor

Department: High Voltage

Research Area(s):

1: Power system overvoltage and insulation

2: Pulse power technology

3: Electromagnetic organism

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SUN Anbang

Professor

Department: High Voltage

Research Area(s):

1: Electrical discharge and plasma and their

applications

2: Electric propulsion and special propulsion

technology

3: Plasma high performance numerical simulation

technology

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**DING** Weidong

Professor

Department: High Voltage

Research Area(s):

1: Gas insulation and gas discharge

2: Pulse power technology

3: High voltage measurement

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DONG Ming

Professor

Department: High Voltage

Research Area(s):

1: Electrical equipment electrical insulation technology

2: Power equipment test, detection and fault diagnosis

technology

3: Electrical equipment condition monitoring and

application of artificial intelligence

4: High voltage computing

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LI Junhao

Associate Professor

Department: High Voltage

Research Area(s):

1: New field test and measurement technology for

power equipment

2: Electrical equipment insulation characteristics and

testing technology

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LIU Xuandong

Associate Professor

Department: High Voltage

Research Area(s):

1: Pulse power technology

2: High voltage test and measurement

3: Gas discharge and application

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LUO Yongfen

Associate Professor

Department: High Voltage

Research Area(s):

1: Power equipment inspection (monitoring) measurement, diagnosis and life assessment

2: New wire and power equipment

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**DENG** Junbo

Associate Professor

Department: High Voltage

Research Area(s):

1: Overvoltage Simulation and Protection of AC/DC

Power System

2: Aging and insulation status diagnosis of power

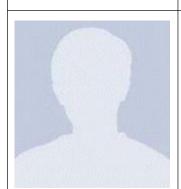
cables

3: Surface charge and discharge measurement of

insulators in GIS

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ZHAO Junping

Associate Professor

Department: High Voltage

Research Area(s):

1: Study on SF6 discharge phenomenon and its application: SF6 gas/gas-solid interface discharge

characteristics, UHV GIS defect diagnosis

2: Research on low-pressure discharge phenomenon

and its application: pseudo-spark discharge phenomenon and pseudo-spark electron beam source research, application of pseudo-spark electron beam source in preparation of high-power terahertz

radiation source and nano-functional film

3: Study on electrical explosion discharge of wire and

its application in preparation of metal/metal

compound nano powder

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MU Haibao

Associate Professor

Department: High Voltage

Research Area(s):

1: Power equipment condition monitoring and fault diagnosis

2: Electrical discharge and plasma applications

3: High voltage testing technology

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ZHU Lingyu

Associate Professor

Department: High Voltage

Research Area(s):

- 1: Vibration mechanism and noise reduction measures of filter capacitor in HVDC transmission project
- 2: Electromagnetic transient analysis of multi-terminal flexible direct current transmission engineering based on MMC
- 3: Series arc fault characteristics and detection method in DC power system
- 4: DC bias phenomenon and suppression measures of HVDC transmission
- 5: State evaluation of main equipment in HVDC transmission project

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**REN Ming** 

Associate Professor

Department: High Voltage

Research Area(s):

- 1: Power equipment insulation fault detection and diagnosis
- 2: High voltage test new technology
- 3: Basic characteristics, mechanism and application of gas discharge
- 4: Novel functional dielectric material and characterization method
- 5: Distribution network distributed monitoring

technology

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PANG Lei

Associate Professor

Department: High Voltage

Research Area(s):

1: Gas discharge phenomenon and theory

2: High voltage power electronics

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CHANG Zhengshi

Associate Professor

Department: High Voltage

Research Area(s):

1: Gas discharge phenomenon and mechanism research

2: Atmospheric pressure low temperature plasma generation technology, parameter diagnosis and active component regulation

3: Study on the interaction mechanism between atmospheric pressure low temperature plasma and solid dielectric material surface

4: Application Research of Atmospheric Pressure Low Temperature Plasma in the Field of Sterilization and Fresh Waste Treatment

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GUO Jun

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Research Area(s):

1: Study on the mechanism of strong electromagnetic environment generation and propagation

2: Study on electromagnetic pulse coupling of multi-conductor transmission line

3: Strong electromagnetic environment generation and simulation technology

4: Strong electromagnetic environment effect test technology

5: Research on Evaluation Method of Strong Electromagnetic Environment Effect

6: Research on strong electromagnetic environment safety of national key infrastructure

7: Research on Thunderbolt Mechanism and Lightning Protection Technology of Aircraft

8: Power equipment fault diagnosis technology

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ZHAGN Baohui

Professor

Department: Power System

Research Area(s):

1: Theory and device of power system safety and stability control system: power system safety and stability identification and prediction theory, power system emergency control theory, safety and stability control system realization technology and device 2: New Relay Protection for Power Systems: New Principles of Relay Protection, New Relay Protection Devices, State Detection and Protection Systems, and New Technologies Related to Relay Protection 3: Power system communication: high-speed carrier theory and technology of power line, access network technology using high-speed carrier of power line, theory and method of "triple play" of telephone, computer and power

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FANG Wanliang

Professor

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Research Area(s):

1: Power system operation analysis and control

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WANG Xiuli

Professor

Department: Power System

Research Area(s):

1: Power system planning

2: Electricity Market

3: Power system reliability

4: Power System Analysis

5: New transmission method

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	Research Area(s):
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	2: Substation integrated automation system
	3: Smart grid
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1	2: New energy access system research
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	Department: Power System
	Research Area(s):
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	power grids
	2: Relay protection for new energy power systems
	3: Relay protection of distribution network
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ZHENG Tao
Associate Professor Department: Power System Research Area(s): 1: Power system communication 2: Distribution network automation E-mail: tzheng@mail.xjtu.edu.cn Homepage: http://ee.xjtu.edu.cn/info/1313/5701.htm
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Associate Professor Department: Power System Research Area(s): 1: Analysis and control of new energy grid-connected operation 2: FACTS and HVDC technology
3: Big Data and Machine Learning in Power Systems

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	2: Integrated energy system
	3: Active power distribution system
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43	Research Area(s):
	1: Electricity Market
2	2: Power system optimization operation
( C ( ) ( )	3: New energy grid connection and energy internet
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	2: Power system planning
	3: Electricity Market
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**MENG Yongqing** 

Lecturer

Department: Power System

Research Area(s): 1: New energy grid

2: Flexible AC Transmission System (FACTS)

3: Frequency division transmission system and high

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**WU** Xiong

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Research Area(s):

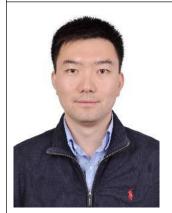
1: Microgrid energy management

2: Integrated energy system

3: New energy grid

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YAN Chenguang

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Department: Power System

Research Area(s):

1: Research on Fault Mechanism and Relay Protection

of Power Equipment

2: Multiphysics coupling modeling and calculation

3: Field test and measurement technology for power

equipment

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SHAO Chengcheng

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Department: Power System

Research Area(s):

1: Power energy system planning

2: Power system scheduling and electricity market

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QIN Boyu

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Research Area(s):

1: Power System Stability Analysis and Control

2: Input-state stability theory

3: New energy generation and microgrid

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LI Yujun

Associate Professor

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Research Area(s):

1: New energy power system frequency stability control

2: Dynamic Behavior Analysis of AC/DC Hybrid System

3: Fault Analysis and Stability Control of AC/DC

System

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XIE Haipeng

Lecturer

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Research Area(s):

1: Ubiquitous power Internet of Things risk analysis

2: Power System Reliability Assessment and Planning

3: DC grid operation and planning

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PENG Zongren

Professor

Department: Electrical Insulation

Research Area(s):

1. Optimum design of power equipment insulation structure and simulation analysis of complex field;

2. Study on EHV/UHV substations, line's external insulation and voltage equalization characteristics;

3. The formation mechanism and measurement technology of space charge in dielectrics;

4. Research on interface effect and micro-mechanism of composite insulation system;

5. Research on on-line monitoring technology of high voltage line insulators;

6. Study on material, structure and electrical

characteristics of HVDC bushing.

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**ZHONG Lisheng** 

Professor

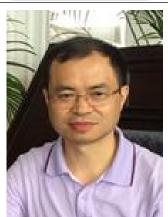
Department: Electrical Insulation

Research Area(s):

- 1. Dielectric and electrical insulation technology;
- 2. Polymer photoelectric materials and devices;
- 3. Biodielectrics and their applications.

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LI Shengtao

Professor

Department: Electrical Insulation

Research Area(s):

- 1. Dielectric theory and its application;
- 2. Research on electrical functional materials and devices;
- 3. Insulation materials and technology under extreme conditions.

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**CHENG Yonghong** 

Professor

Department: Electrical Insulation

Research Area(s):

- 1. Dielectric properties of dielectric materials;
- 2. Failure mechanism and modification of dielectric materials under extreme conditions;
- 3. Insulation deterioration mechanism of power equipment;
- 4. On-line monitoring and fault diagnosis technology.

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YAO Xueling

Professor

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Research Area(s):

- 1. High voltage and large current automation control and testing technology;
- 2. Biological effects of pulsed electromagnetic fields;
- 3. Research on pulse power technology;
- 4. Basic theory and test technology of over-voltage protection apparatus in information system.

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WU Kai

Professor

Department: Eelctrical Insulation

Research Area(s):

- 1. Electrical aging and breakdown theory of insulating materials:
- 2. Partial discharge detection and internal mechanism research;
- 3. Rational optimization of urban energy system.

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XU Yang

Professor

Department: Electrical Insulation

Research Area(s):

Electrical insulation testing technology

- 1. Partial discharge testing technology for HVDC cables;
- 2. Optical fiber sensing technology of partial discharge ultrasound;
- 3. Vegetable oil impregnated high temperature paper insulation system for transformers.

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LI Jianying Professor

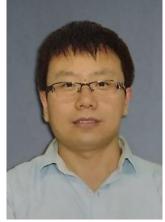
Department: Electrical Insulation

Research Area(s):

- 1. Dielectric physics and its application;
- 2. Insulation material and electrical insulation technology;
- 3. Functional dielectrics.

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HAN Xiaogang

Professor

Department: Eelctrical Insulation

Research Area(s):

- 1. Research on energy storage mechanism and devices, including solid-state lithium batteries, lithium-metal batteries, lithium-sulfur batteries, high energy density supercapacitors, etc;
- 2. Basic and applied research of composite energy storage technology, including energy storage for distribution network, energy storage for new energy, indoor energy storage, etc;
- 3. Cross-border application research of two-dimensional nanomaterials, including graphene, boron nitride, etc.

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LIU Wenfeng

Professor

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Research Area(s):

- 1. Dielectric materials;
- 2. Functional materials.

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XIAO Bing Professor

Department: Eelctrical Insulation

Research Area(s):

- 1. First-principles theoretical design and calculation of new 2D energy storage and energy conversion materials;
- 2. Molecular dynamics simulation and simulation of thermal effect of nano-micron scale electrode discharge;
- 3. First-principle molecular dynamics studies of the high temperature and high pressure state and phase diagrams;
- 4. Measurement and application of exchange correlation energy in density functional theory.

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LIU Xuezhong

Associate Professor

Department: Eelctrical Insulation

Research Area(s):

- 1. Power equipment and electromagnetic field analysis and optimum design of high voltage converter valve;
- 2. Insulation state assessment and detection of frequency conversion and wind turbine;
- 3. Transient analysis and insulation coordination of wind farm and power cable system;
- 4. Corona protection design and measurement of high voltage motor.

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HE Bo

Associate Professor

Department: Eelctrical Insulation

Research Area(s):

- 1. External insulation of high voltage transmission lines:
- 2. Photoelectric detection technology of transient strong electric field;
- 3. Stability analysis technology of tower-line coupled structures.

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SHI Jianwen

Associate Professor

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Research Area(s):

- 1. Design, synthesis and application of novel nano-photocatalytic, electrocatalytic and photocatalytic materials;
- 2. Preparation and application of flue gas low temperature denitration catalyst;
- 3. Activity evaluation and regeneration of industrial denitrification catalyst.

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WANG Xia

Associate Professor

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Research Area(s):

- 1. Research and development of new high voltage dc cable and dc material;
- 2. Space charge measurement technology in polymer insulation;
- 3. Design of high voltage cable accessories and fault diagnosis technology.

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LIU Ying

Associate Professor

Department: Eelctrical Insulation

Research Area(s):

- 1. Design of electrical insulation structure;
- 2. Power cable;
- 3. Insulation testing technology.

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ZHANG Jinying Associate Professor Department: Eelctrical Insulation Research Area(s):

- 1. Study on synthesis and mechanism of one-dimensional novel nanomaterials;
- 2. Synthesis and application of fullerenes, carbon nanotubes, graphene and graphene-like materials;
- 3. Synthesis and application of new nano-materials with high conductivity, high insulation and high insulation:
- 4. Synthesis and application of new fluorescent semiconductor nanomaterials.

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LIU Peng

Associate Professor

Department: Eelctrical Insulation

Research Area(s):

- 1. Optimum design and multi-physical field simulation of insulation structure of power equipment;
- 2. Study on space charge characteristics and measurement technology of polymers;
- 3. Research on key technologies of high-end ac and dc bushing;
- 4. Research on new transmission technology;
- 5. State perception and reliability analysis of electric power equipment.

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WANG Hongkang Associate Professor

Department: Eelctrical Insulation

Research Area(s):

- 1. Electrochemical energy storage materials and devices (lithium/sodium ion batteries, supercapacitors, etc.);
- 2. Synthesis and application of nanomaterials (heat conduction, insulation);
- 3. Materials and devices of solar cells (perovskite type, sensitized type).

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CHEN Wei

Associate Professor

Department: Eelctrical Insulation

Research Area(s):

1. Electrical functional materials;

2. Ferroelectric materials.

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ZHANG Hong

Associate Professor

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Research Area(s):

1. Photoelectric functional dielectric materials and

devices;

2. Material and preparation technology of solar cells;

3. Biomedia material and bioelectromagnetic effect.

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CHEN Xin

Associate Professor

Department: Eelctrical Insulation

Research Area(s):

1. Chemical, physical and mechanical properties simulation of energy storage/new energy materials;

2. Transient stability, network topology and stochastic optimal management strategy of smart grid;

3. Research on nano/molecular scale energy and particle transfer processes, and related quantum

dynamics simulation algorithms for complex systems;

4. Application of large data and Machine (Deep)

Learning in various computational studies, power grid

simulation, materials, physical chemistry.

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XU Man

Associate Professor

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Research Area(s):

1. Study on properties and applications of polymer

materials;

2. Properties and applications of nanocomposite

dielectrics.

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GAO Jinghui

Associate Professor

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Research Area(s):

1. Functional dielectrics and their applications in piezoelectric, dielectric, energy storage and etc.;

2. High voltage insulation technology;

3. Bioelectromagnetic effect.

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# ZHOU Jun

Associate Professor

Department: Eelctrical Insulation

Research Area(s):

1. Synthesis and application of electrode materials for reversible solid oxide batteries;

2. Optimization and integration technology of new energy conversion system;

3. Synthesis and electrochemical properties of nano-oxide catalysts;

4. Interface design of polymer insulation composites;

5. Electrothermal coupling characteristics of

nano-scale insulating materials.

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MENG Guodong Associate Professor

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Research Area(s):

1. Insulation performance evaluation and discharge plasma characteristics at micro-nano scale;

2. Two-dimensional materials synthesis, characterization technology and design and two-dimensional devices development;

3. Insulation state assessment and detection and diagnosis technology of electric power equipment;

4. Development and performance improvement of advanced dielectrics.

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MENG Yongpeng

Lecturer

Department: Eelctrical Insulation

Research Area(s):

1. Insulation aging mechanism and life assessment;

2. Partial discharge theory and detection technology;

3. On-line detection and fault diagnosis of electric power equipment.

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JIA Lixin

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Research Area(s):

1. Industrial intelligent control system;

2. Fieldbus control system;

3. Intelligent instruments for electrical measurement.

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YANG Xu Professor

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- 1. Power electronics integration technology;
- 2. Switching power supply technology;
- 3. Automatic control technology.

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WANG Yue

Professor

Department: Power Electronics and Automation Research Area(s):

- 1. The application of power electronics technology in power quality control, power transmission and distribution system and distributed new energy system;
- 2. High-power power electronic transmission technology;
- 3. The application of embedded control system in power electronic devices.

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LIU Jinjun

Professor

Department: Power Electronics and Automation Research Area(s):

- 1. The application of power electronics technology in power quality control and transmission and distribution system;
- 2. Power electronic converters and control for micro-grid and future grid with new energy and distributed generation;
- 3. Modeling, simulation, analysis and control of power electronic circuits and systems.

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XIAO Guochun Professor

Department: Power Electronics and Automation

Research Area(s):

The fields of power electronics and power transmission, include: power quality analysis and control technology; power electronics system modeling, simulation and control; distributed generation technology; power electronics device design and application technology, etc.

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# **ZHUO Fang**

Professor

Department: Power Electronics and Automation Research Area(s):

- 1. Power quality integrated control technology;
- 2. Grid-connected technology of new energy generation;
- 3. Power electronic converter control technology in
- 4. Impedance measurement method and stability analysis of micro-grid system.

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PEI Yunging

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- 1. DC-DC converter topology and control technology;
- 2. Topology and control technology of high power special power supply.

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HE Yingjie

Associate Professor

Department: Power Electronics and Automation Research Area(s):

- 1. Power quality control technology;
- 2. Multilevel inverter and its control technology;
- 3. Application of power electronics in power system.

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## HU Feihu

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Department: Power Electronics and Automation Research Area(s):

- 1. Big data and deep learning and their application;
- 2. Research on a new generation power market simulation system with high proportion of renewable energy;
- 3. Development of internet of things, embedded system and industrial intelligent control system.

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JIA Yaoqin

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Department: Power Electronics and Automation Research Area(s):

- 1. Power electronic digital control: theoretical analysis of digital control system and software design of digital control algorithms;
- 2. Distributed generation system: smart grid and micro-grid.

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SHEN Chuanwen

Associate Professor

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Research Area(s):

- 1. Electric drive;
- 2. AC speed regulation;
- 3. Wind power generation;
- 4. Inverter development.

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# CHEN Gang

Associate Professor

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Research Area(s):

- 1. Computer control;
- 2. Electrical control equipment;
- 3. Testing instruments;
- 4. Industrial network.

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## SI Gangquan

Associate Professor

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Research Area(s):

1. Industrial intelligent soft sensing and industrial

intelligent control;

- 2. Industrial wireless sensor networks;
- 3. Nonlinear systems and complex networks.

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GAN Yongmei

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Research Area(s):

- 1. Supervisory control of discrete event systems;
- 2. Computer control technology and embedded system:
- 3. Control network and communication.

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ZHANG Xiaotian
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Research Area(s):

- 1. Flexible DC transmission technology;
- 2. Power electronics digital control technology.

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ZHANG Yan Associate Professor

Department: Power Electronics and Automation Research Area(s):

- 1. Topology, modeling and control theory of power electronic converter in distributed power system;
- 2. High frequency, high efficiency and high power density resonant converter soft switching topology and digital control technology;
- 3. Reliability of power electronic devices and systems.

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WANG Feng

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- 1. New energy power generation technology;
- 2. High-power power electronic converter technology;
- 3. Reliability optimization technology of power electronic devices.

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LEI Wanjun

Associate Professor

Department: Power Electronics and Automation Research Area(s):

- 1. Application of power electronics technology in power system;
- 2. Renewable energy access and power quality control technology;
- 3. Customized power supply technology.

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YI Hao

Associate Professor

Department: Power Electronics and Automation Research Area(s):

- 1. Power quality control and high-quality power supply technology;
- 2. Micro-grid control technology;
- 3. Modeling and control of grid-connected converter.

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## WANG Laili

Professor

Department: Power Electronics and Automation Research Area(s):

- 1. Wide band-gap power semiconductor packaging integrated technology;
- 2. High frequency power conversion technology;
- 3. Radio power transmission technology.

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## LIU Zeng

Associate Professor

Department: Power Electronics and Automation Research Area(s):

- 1. Parallel and grid-connected control of energy storage converters in distributed generation systems;
- 2. Small signal modeling and stability analysis of AC/DC power electronic system;
- 3. Design and high performance control of large capacity isolated DC converter system.

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CAO Hui Professor

Department: Power Electronics and Automation Research Area(s):

- 1. Industrial intelligent control and its application in electrical engineering;
- 2. Data mining and pattern recognition;
- 3. Knowledge representation and knowledge discovery.

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HU Hongli Professor

Department: Electrical Measurement and Instrument Research Area(s):

- 1. Visual multiphase flow detection and process control in ECT;
- 2. State monitoring and fault diagnosis of electric power equipment;
- 3. Graphene-based energy storage materials and energy storage devices, sensitive materials and sensors.

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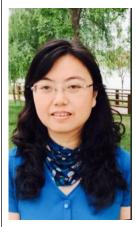
ZHANG Yong Professor

Department: Electrical Measurement and Instrument Research Area(s):

- 1. Advanced nano-sensor technology and its intelligent system;
- 2. Diagnostic technology of gas discharge plasma for major equipment in power system.

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DING Hui

Professor

Department: Electrical Measurement and Instrument Research Area(s):

- 1. Application of new optical fiber sensing technology in state detection of electric power equipment;
- 2. Intelligent sensing system and instrument design.

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# TANG Xiaojun

Professor

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- 1. On-line monitoring of electrical equipment operation status;
- 2. Mine safety prediction;
- 3. Gas logging in exploration wells;
- 4. Intelligent instrument and intelligent control;
- 5. Nanometer gas sensor;

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## CHEN Yu

Associate Professor

Department: Electrical Measurement and Instrument Research Area(s):

- 1. Testing technology in special environment;
- 2. On-line monitoring and fault diagnosis technology of electric power equipment.

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LI Yunjia

Associate Professor

Department: Electrical Measurement and Instrument Research Area(s):

- 1. Micro-electromechanical system (MEMS) sensors;
- 2. Micro-electromechanical system (MEMS) actuator;
- 3. Energy collector.

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CAO Jian'an

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- 1. Measurement and control technology;
- 2. Gas detection and its information processing;
- 3. Research on embedded computer system;
- 4. Power electronics technology.

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ZENG Xiangjun

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- 1. Research on wind power generation technology;
- 2. Research on power electronics integration technology;
- 3. Design of intelligent instruments.

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LIU Yiying

Lecturer

Department: Electrical Measurement and Instrument Research Area(s):

- 1. Research on optical fiber sensing technology;
- 2. Acoustic emission detection technology;
- 3. DC high current detection technology.

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NING Gaidi

Professor

Department: Electrical and Electronic Technology Research Area(s):

- 1. Digital control technology, measurement and control technology and intelligent instruments;
- 2. The application of power electronics technology in power system, flexible AC transmission technology.

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CHEN Wenhao

Professor

Department: Electrical and Electronic Technology Research Area(s):

- 1. Electromagnetic compatibility (EMC) in the field of power electronics technology;
- 2. Electromagnetic interference suppression technology;
- 3. Modeling, simulation and control of photovoltaic power generation system.

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YANG Jianguo

Professor

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Traffic simulation, traffic information collection and control and electronic technology application in intelligent transportation.

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MA Xikui

Professor

Department: Electrical and Electronic Technology Research Area(s):

- 1. Coupling theory of multiple physical fields in electrical engineering and its numerical analysis and software technology;
- 2. Electromagnetic field and electromagnetic wave, electromagnetic interference and electromagnetic compatibility design in communication and electronic systems;
- 3. Analysis and control of complex behavior in power electronic circuits and systems;
- 4. Analysis and control of large-scale photovoltaic power generation system;
- 5. Circuit and system analysis and testing diagnosis technology.

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LUO Xianjue

Professor

Department: Electrical and Electronic Technology Research Area(s):

- 1. Safe and economic operation, planning and reliability theory and application of complex power systems;
- 2. Optimal dispatch of power system with new energy access:
- 3. Analysis, diagnosis, CAD and optimization of analog circuit system.

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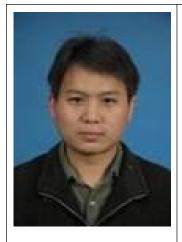
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