

# **Introduction of Ph.D Supervisors**

## **In College of Electrical Engineering and New Energy**

- (1) Professor &Ph.D Huang Yuehua**
- (2) Professor &Ph.D Tang Bo 唐波;**
- (3) Professor &Ph.D Wang Fangzong 汪芳宗;**
- (4) Ph.D Zhang Yujiao 张宇娇;**
- (5) Professor &Ph.D Li Xianshan**

# 1. Professor & Ph.D Huang Yuehua

**Name:** HUANG Yuehua

**Academic title:** Professor

**Research fields:** Electrical engineering, Control science and Engineering

**Mainly research direction:** New energy micro-grid Technology, Intelligent distribution network, Intelligent control, Detection and automation device

**Individual Resume:** Male, Born in 1972, Party members of the Communist Party of China, Doctor, Professor, Doctoral supervisor. Graduated from College of electrical engineering in Huazhong University of technology in 1994 and got the bachelor's degree; Graduated from Huazhong University of Science and Technology in 2013 which majored in Control science and Engineering and got the doctor's degree. He was the deputy director and chief of the science and Technology Department of China Three Gorges University, and hold a concurrent post of the New Energy Research Institute of China Three Gorges University; The leader of the theory of talent control and engineering discipline, Hubei numerical control first generation innovation demonstration project expert, Standing director of Hubei Provincial Automation Association and executive director of Research Management Research Association of Hubei Province University, The editorial board of “**Proceedings of the CSU-EPSA**” and “Hydropower and new energy”, Expert on electrical engineering of the National Natural Science Foundation of China, Evaluation committee of the science and Technology Award Committee of Hubei Province.

**The main research projects that have been conducted or participated in the last five years: More than 30 projects were conducted or participated in scientific research projects, with more than 5 Million yuan for scientific research.**

1) Research on the stability of landslides based on GIS, National Natural Science Foundation, presided over

- 2) Study on the controllable electrical properties of magnetorheological fluids, National Natural Science Foundation, presided over
- 3) 863 military project (2008AA809D511), national level 863 project, participation
- 4) The new energy consumptive and electric vehicle scale application of key technology research, colleges and universities in Hubei Province outstanding youth science and technology innovation team plans, presided over
- 5) Research on the wireless network technology for the industrial production of medical butyl rubber plug, the key project of Hubei Natural Science Foundation, presided over
- 6) Research on the distributed control system for the welding of diamond circular saw substrate, the scientific research project of Hubei Province, presided over
- 7) Harmonic signal processing and accurate measurement of harmonic electric energy, Hubei Natural Science Foundation, presided over
- 8) Research on the detection and analysis system of the impact rotary opening machine, the scientific research project of the Hubei Provincial Education Department, presided over
- 9) The application of distributed control system in small and medium water works, Yichang science and technology project, presided over

**Representative results and rewards:**

- 1) Dynamic analysis and control of uncertain nonlinear systems, first prize of Hubei Natural Science Award in 2014, individual ranking second
- 2) Environmental protection silencer diamond circular saw base welding distributed control system, 2008 Hubei science and Technology Progress Award three award, individual ranking first
- 3) Portable all digital multi-function magnetic particle flaw detector, 2006 Hubei science and Technology Progress Award three prize, individual ranking fifth
- 4) 230~600mm composite silencer diamond saw blade base, 2009 Hubei science and Technology Progress Award three prize, individual ranking Sixth

5) Online trading theory and application research, 2009 Hubei science and technology progress award two prize, individual ranking ninth

6) Research on numerical control resistance spot welding machine, first prize of Yichang science and Technology Progress Award in 2008, individual ranking first

**Paper and retrieval (more than 30 papers published, including more than 20 articles in three major retrieval papers, and 1 published academic monographs)**

[1]Enhanced conductivity of magnetorheological fluids based on silver coated carbonyl particles, 1/6, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, JAN 2016, SCI included

[2]Influence of Oleic and Lauric Acid on the Stability of Magnetorheological Fluids, 1/4, JOURNAL OF MAGNETICS, SEP 2015, SCI included

[3]Grid connection based on variable universe fuzzy control for no-load BDFG system of wind farm, 1/3, Electric Power Automation Equipment, FEB 2012, EI included

[4] Maximum power point tracking strategy for wind power generation system, 1/4, Electrical measurement and instrument, 2012-05 , Core Journals included

[5] MPPT research based on SVM improved perturbation method, 1/4, Power supply technology, 2015-03, Core Journals included

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# Professor & Ph.D. Tang Bo

Tang Bo was born in Hubei, China, in 1978.

Currently, he is a Vice Dean of the Electric Engineering and Renewable Energy School in China Three Gorges University, and is one of the members of science and technology innovation team for State Grid Corporation of China (SG11013). In addition, he is a reviewer for EI Core Journal of <High Voltage Engineering>.

He received the B.S. degree from Wuhan University of Hydraulic and Electric, Wuhan, China, in 2000, the M.S. degree from China Three Gorges University, Yichang, China, in 2005, the Ph.D. degree from Huazhong University of Science and Technology, Wuhan, China, in 2011.

Until now, his research interests include Extra/Ultra high voltage transmission technology and electromagnetic environment from power system.

He has presided over 1 National Nature Science Foundation, 4 provincial and ministerial science projects, and 13 others projects. Moreover, he has published over 60 research papers as the first author, and over 30 papers have been indexed by SCI/EI.

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## **Professor & Ph.D Wang Fangzong**

Professor & Ph.D Wang Fangzong received a doctorate degree in Hua Zhong University of Science & Technology in 1991. In 1993 he got a post-doctoral degree. His areas of study include Electric Power System and Automation, new energy micro-grid, computational & applied mathematics in engineering and so on. He is Chair professor in CTGU Electrical Engineering and New Energy.

From now on, 3 NSFC projects and 3 national 863 projects have been conducted by Professor Fangzong Wang. He also published 2 academic monographs and 90 theses. 50 theses of those have been published by SCI and EI. He has the honor to win Hubei province scientific and technological advance award. Professor Fangzong Wang have conducted many projects of China Electric Power Research Institute, China South Electric Network Company and other units.、

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## **Ph.D Zhang Yujiao**

**Zhang Yujiao** was born in Wuhan, China, in 1979. She became a teacher in 2005, in the college of electrical engineering and new energy after receiving the M.Sc. degree from Wuhan University. In 2009, she came back to Wuhan University for learning further. Then she received the Ph.D. degree in 2012. She became an Associate Professor in 2013. From September 2014 to April 2015, she was a Visiting Scientist in Department of Electrical Engineering, Tsinghua University, Beijing, China. In 2016, she became the University Professor and Doctoral Supervisor. Currently, she is the Department Chair of Transmission Line Engineering, CTGU. Her research interests include advanced design and intelligent maintain for electrical equipment. She presided over two projects supported by the National Natural Science Foundation of China and tens of projects

supported by electric power company. She is the author of 50 technical papers and 10 patents for invention. In 2017, she awarded First Prize of Science and Technology Progress in Hubei Province.

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## 李咸善 Li Xianshan

出生年月 **Date of Birth:** October 8, 1964

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所属学院 **Faculty:** 电气与新能源学院 College of Electrical Engineering & New Energy

职称 **Job Title:** 教授 Professor

### 1. 教育背景 **Education:**

1983年9月-1987年7月 华中工学院 电力系统及其自动化专业本科

September, 1983--July, 1987: Huazhong Institute of Technology, Bachelor of Power System and Its Automation

1987年9月-1990年1月 华北电力学院北京研究生部 电力系统及其自动化专业硕士

September, 1987--January, 1990: Beijing Graduate Division of North China Electrical Power Institute, Master of Power System and Its Automation

2001年2月-2003年12月 法国布莱茨.帕斯卡大学 电子与系统专业博士学位

February, 2001--December, 2003: Blaise Pascal University, France, PhD of Electronics and Systems

### 2. 工作经历 **Professional Experiences:**

1990年3月—1996年7月 在葛洲坝水电工程学院工作

March, 1990--July, 1996: worked in Gezhouba Hydropower Engineering College

1996年7月—2000年6月 在武汉水利电力大学（宜昌）工作

July, 1996--June, 2000: worked in Wuhan Hydraulic & Electric University at Yichang  
2000年7月—至今, 2000年7月至今 在三峡大学工作

July, 2000—now, January, 2000 to now: worked in China Three Gorges University

### **3. 研究方向 Research Directions:**

微电网运行与控制

Operation and Control of Micro-grid

电力系统运行与控制

Operation and Control of Power Systems

水电站仿真

Simulation of Hydropower Plant

### **4. 发表科研论文 Published Papers (since 2011):**

[1] YANG Fuyun, LI Xianshan HU Wenbin, Research and Development of Hydropower Station Relay Protection Visualization Automatic Setting Calculation Software, China Water Power & Electrification, No.6, Jun.. 2013.

[2] LI Xianshan, WANG Zhufeng, WANG Xiaojian, YU Ming, Research on the Protection Setting and Coordination for Complex Auxiliary Power Supply of Hydropower Station, Hydropower Automation and Dam Monitoring, Vol. 35, No. 6, Dec. 20, 2011.

[3] LI Xianshan, XU Hao, DU Yulong, Maximum Power Tracking of Wind Power Generation System Using the Combination of Tip Speed Ratio Method and Climbing Search Method, Power System Protection and Control, Vol. 43 No. 13, Jul. 1, 2015.

[4] TIAN Hui-wen, LI Xian-shan, CHEN Tie, TAN Si, Comprehensive control strategy of hybrid energy storage-based photovoltaic island microgrid, Power System Protection and Control, Vol. 42 No. 19, Oct. 1, 2014.

### **5. 承担的主要科研项目 Research Projects (since 2011)**

(1) 2013-2016, 李咸善, 刘沛, 黄景光, 陈铁, 应对大规模停电的孤岛微网有效负荷支撑策略研究, 国家自然科学基金面上。

2013-2016, LI Xianshan, LIU Pei, HUANG Jingguang, CHEN Tie, Studies of Load Supporting Strategy for Islanded Micro-grid against Blackouts, Surface Project of National Natural Science Foundation of China.



(2) 2012-2015, 李咸善, 胡翔勇, 周云海, 大规模风电与大容量抽水蓄能在电网中的联合优化运行技术, 863 子项目。

2012-2015, LI Xianshan, HU Xiangyong, ZHOU Yunhai, Optimization Technology for the Combined Operation of Large Scale Wind Power and Pumped Storage Power Station in Power Grid, 863 subprojects.

(3) 2011, 李咸善, 陈铁, 张彬桥, 汪长林, 李文武, 龙滩水电站仿真培训系统工程, 龙滩水电开发有限公司。

2011, LI Xianshan, CHEN Tie, ZHANG Binqiao, WANG Changlin, LI Wenwu, Project of LONGTAN Hydropower Station Training Simulator, LongTan Hydropower Development Co., Ltd.

(4) 2011, 李咸善, 钟浩, 陈铁, 三峡电站厂用电及相关系统保护定值配合研究, 中国长江电力股份有限公司。

2011, LI Xianshan, ZHONG Hao, CHEN Tie, Protection Coordination Study of China Three Gorges Hydropower Plant, China Yangtze Power Co., Ltd.

#### **6. 获奖及荣誉 Honors and Awards (since 2011):**

(1) 全国优秀教师

National excellent teacher

(2) 水力发电科学技术奖三等奖

Third Prize of Award of Science Technology of Hydraulic Power Generation

(3) 湖北省高等学校教学成果奖一等奖, 3 项

First Prize of Provincial Excellent Teaching Results, 3 items.

