

Master's Program in Electrical Engineering

Title/degree: Master of Engineering (M.E.)

Duration: 2-3 years, full-time

Start month: September

Language of instruction: English

I. Program Description

The English-taught Master of Engineering (M.E.) in Electrical Engineering program extensively enrolls and cultivates worldwide master's degree students under the primary discipline of Electrical Engineering, Communication Technology, and Computer Technology. The research fields cover power electronics, electric drive, intelligent control and intelligent automation, pattern recognition, intelligent information sensing and communication engineering, intelligent decision support system, modelling and control of productive process, industrial network, and system integration with database and data warehouse.

II. Why study Electrical Engineering at Donghua University?

- 1. Our approach is pragmatic as well as theoretical. As an academic, we not only expect you to understand and make use of the appropriate tools, but also to program and develop your own.*
- 2. There are plenty of high profile companies in the vicinity such as Siemens, KUKA, CHNT, etc. where you could do an internship or the research for your Master's project.*
- 3. Currently, we have more than 1000 students enrolled in the College of Information Science and Technology in Donghua University. They can enjoy the advantages of our faculty as there are:*
 - *Excellent support from 17 professors and numerous scientific faculty members and tutors*
 - *Various courses of study, focused on different topics*
 - *Excellent scientific reputation (national and international).*

III. Participating Professors and Junior Scientists



Prof. Dr. 王直杰 Wang Zhijie

Ph.D. Supervisor

Research Area: Neural networks, Machine learning, Software design for control systems,
Data mining

wangzj@dhu.edu.cn



Prof. Dr. 郝矿荣 Hao Kuangrong

Ph.D. Supervisor

Research Area: Pattern recognition, robots

krhao@dhu.edu.cn



Prof. Dr. 周武能 Zhou Wuneng

Ph.D. Supervisor

Research Area: Machine learning, Intelligent optimal algorithm

wnzhou@dhu.edu.cn

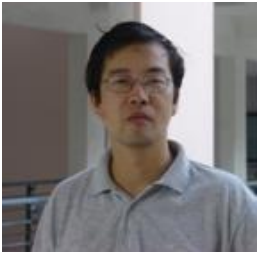


Prof. Dr. 卢文科 Lu Wenke

Ph.D. Supervisor

Research Area: Sensors

luwenke3@163.com



Prof. Dr. 赵曙光 Zhao Shuguang

Ph.D. Supervisor

Research Area: EHW, Intelligent information processing

sgzhao@dhu.edu.cn



Prof. Dr. 任正云 Ren Zhengyun

Ph.D. Supervisor

Research Area: Model predictive control, Adaptive control, Process computer control

renzhengyun@dhu.edu.cn



Prof. Dr. 李征 Li Zheng

Research Area: Complex system modeling and intelligent control, Distributed power generation system control and integration, Micro smart grid

lizheng@dhu.edu.cn



Prof. Dr. 沈波 Shen Bo

Ph.D. Supervisor

Research Area: Stochastic nonlinear control

bo.shen@dhu.edu.cn

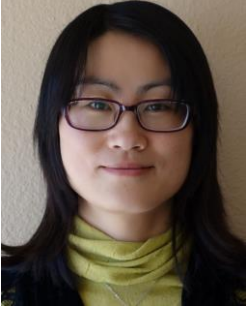


Prof. Dr. 孙韶媛 Sun Shaoyuan

Ph.D. Supervisor

Research Area: Night vision image processing, Pattern recognition and machine vision, Colorization of infrared image

shysun@dhu.edu.cn

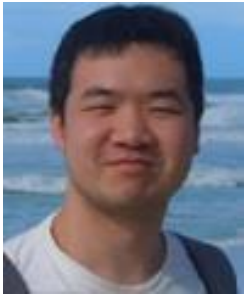


Prof. Dr. 齐洁 Qi Jie

Ph.D. Supervisor

Research Area: Multi-agent System, Multi-robot Control, Distributed Parameter System, Evolution Computation and Optimization

jieqi@dhu.edu.cn



Prof. Dr. 赵鸣博 Zhao Mingbo

Research Area: Pattern recognition

mzhao4@dhu.edu.cn



Prof. Dr. 龚涛 Gong Tao

Ph.D. Supervisor

Research Area: Immune Computation, Artificial Intelligence, Security, Embedded systems

taogong@dhu.edu.cn



Prof. Dr. 刘华山 Liu Huashan

Research Area: Robotics, Motion Control, Mechatronics

hslu@dhu.edu.cn



Prof. Dr. 石红瑞 Shi Hongrui

Research Area: Modeling, Simulation and Control of Dynamic Systems; Control Theory and Application

shihr@dhu.edu.cn



Prof. Dr. 刘浩 Liu Hao
 Research Area: Image/Video Coding and Analysis
liuhao@dhu.edu.cn



Prof. Dr. 李晓丽 Li Xiaoli
 Research Area: Distributed control and optimization of large-scale cooperative network system
xlli@dhu.edu.cn

Prof. Dr. 张义红 Zhang Yihong
 Research Area: PLC, Image processing, Sensor network, Automatic control method, The internet of the things method and application, Software engineering management
zhangyh@dhu.edu.cn

IV. Modules

C: compulsory course E: elective course CP: credit points

Consolidation Phase			One needs to obtain 22CPs from compulsory courses and 12CPs from elective courses. These 34CPs should in general be acquired in the 1st year.
1st Year			
C/E	Topic	CP	
C	Modern Mathematical Methods	3	
C	Modern Control Theory	3	
C	Pattern Recognition: Theory and Technology	3	
C	Intelligent Systems and Control	3	
C	Introduction to China	2	
C	Chinese Language	8	
E	Embedded Systems: Theory and Application	3	
E	Information Security of Networks	3	
E	Data Mining	3	
E	Internet of Things	3	
E	Modern Signal Processing	3	
E	Image Communication and Information Processing	3	

Scientific Phase		
2nd Year	Thesis Proposal	
3rd Year	Final Defense	
	Concealed Evaluation	

In case you experience any problems throughout your studies, please contact student advisors. They are ready to help you personally for all situations you might encounter. Ms. Ai Xin.