Zhongtao Guan CHINA



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Sep. 2021 - Present

Education

Shanghaitech University

Shanghai, China

Bachelor of Engineering, Electrical engineering Overall GPA-3.80/4.0, Major Rank-2/55, Overall Rank-8/230

Publication

- 1. Zhongtao Guan, Jun Wan, Yu Liu, Dian Lu, Mengzhao Duan and Renke Huang. "Accurate Single-Ended Fault Location for Cable-OHL Hybrid Transmission Lines", in Power and Energy Society General Meeting (PESGM), 2023.
- 2. Jiayu Yang, Yu Liu*, Kang Yue, **Zhongtao Guan**, Minfan Fu and Haoyu Wang, "Closed-Form Solutions of Mutual Inductance and Load for LCC-S Wireless Power Transfer Systems", in 3rd IEEE International Conference on Industrial Electronics for Sustainable Energy Systems, Jul. 2023.
- 3. Mengzhao Duan, Yu Liu, Ze Liu, Xinchen Zou and **Zhongtao Guan**. "A Group of Single-Ended Time-Domain Line Fault Location Methods Using Breaker Operation Information", in IEEE Power and Energy Society General Meeting (PESGM), 2023.

Research Experience

Power System Protection & Automation Laboratory

Mentors: Prof. Liu Yu

6.2022 - 8.2023

ShanghaiTech University

- Using single-ended measurement to locate faults on the mixed-transmission line.
- Design a low-Cost inverter with brand-new devices for plugging renewable energy into smart grid.

Motor and Motion-Control Lab

Mentors: Prof. Chen Jiahao

8.2023-Present ShanghaiTech University

- Mechanical Design and Control of biped robot.
- Design actuators for biped robot.

Projects and Competition

9.2021-6.2022 Robomaster

Robot Competition

- Lead and coordinate a group for experimental robot design and development.
- Responsible for mechanical design and routine maintenance.

Inverter Design and Control

Spring 2023

Individual Project

- Realize Phase-loop and close-loop control algorithms on Ti's C2000 microcontroller.
- Design related PCB Using Altium Designer.

Bandit Algorithm Autumn 2022

Group Project

- Realize and compare the performance of ϵ -greedy, UCB(upper confidence bound) and TS(Thompson Sampling) algorithms.
- Design more practical cases and adjust algorithms to obtain better performance.

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Work and Volunteer Experience

Electric CircuitSpring 2023Teaching AssistantShanghaiTech University

• Responsible to course recording, tutorial classes; set questions and answers.

Volunteer Teaching in Yunnan

Volunteer Teacher

Spring 2022 ShanghaiTech University

• Teaching Physics and Chinese for children in one of Dali's depressed village.

• Continue donating salary of teaching assistant through United Nations Children's Fund.

Awards

Excellent Student	Top 3%	2022
Outstanding Individual in Social Practice		2022
RoboMaster University Championship (Eastern Division)	2nd Prize	2022
RoboMaster University Championship (National)	3rd Prize	2022
Outstanding Teaching assistant		2023
National Undergraduate Electronic Design Contest (Shanghai Division)	2nd Prize	2023

Skills and Courses

Programming Skills and Software: C/C++, python, MATLAB, Simulink, Code Composer Studio, Altuim Designer, Solidworks