

Wang Yuchao

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Education

University of Electronic Science and Technology of China

2019/08-2023/07

- 📖 GPA: 3.54/4.0
- 📖 Major: Electronic Information Engineering
- 📖 Main courses: Frontiers in Wireless Artificial Intelligence, Digital Signal Processing, Digital Radio System Design, Signal Processing and Music Applications, Experiment of Electronic Circuit, High-level Language Programming, Digital Logic Circuit and System

Research

Critical Node Identification of Cascading Failure Based on Structural Controllability

Team member

2022/04-present

- 📖 Responsible for deriving models, building simulation models, and writing papers
- 📖 Repeatedly tried modeling methods, and found better solutions by further studying knowledge of cybernetics
- 📖 After finding a model that could be explained in principle, I wrote code to build a simulation scenario, simulated cascading failures in a real electrical network, and then searched convincing parameters to compare the feasibility of my method
- 📖 The paper has been almost done and will be published on SCI Zone 3, and I will be the first author

Competitions

“Datang Cup” National Mobile Communication 5G Technology Competition for College Students

Team member

2021/12-2022/05

- 📖 Responsible for the simulation section of answering questions and building base stations
- 📖 Self-studied internet of vehicles environment, base station construction, data calculation, etc
- 📖 Improved practical operation ability, self-study ability and search capability

Mathematical Modeling Competition

Team member

2019/10-2020/05

- 📖 Attended modeling training and self-studied thesis writing through reading excellent papers of previous years
- 📖 Improved the abilities of formula inference and analytical ability
- 📖 Deepened my understanding of advanced mathematics and linear algebra

Activities

- 📖 Volunteer of the 11th China Satellite Navigation Annual Conference: served as a group leader to manage the logistic system of the volunteer team and redeploy staff to support other departments
- 📖 Debate Competition: took part in school-level debate competitions and won third prize with team members
- 📖 English Club: exercised my spoken English and communication skills

Honors&Skills

- 📖 School-level Scholarship two times
- 📖 Excellent Individual in Social Practice
- 📖 2nd Prize, “Datang Cup” National Mobile Communication 5G Technology Competition for College Students
- 📖 Excellence Award of the Fifth National Undergraduate AIDS Prevention Knowledge Contest
- 📖 Erhu (Level 10 Certificate), badminton, tennis, table tennis