Yueke Zhang

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EDUCATION

Southwest University   Chongqing, CHN
Bachelor in Management Information System   *Expected December 2019-2023*
- GPA: 3.6
- Rank: 8/76

EXPERIENCE

Research Assistant   December 2021 – Present
Vanderbilt University   *Nashville, USA*
- Automated Program Repair and AI4SE by research assistant to Professor Yu Huang and Kevin Leach
- Model fault localization in SE as multi-criteria decision making and achieve 35% improvement on multiple bug location with popular benchmark defect4j v1.2.0 compared to the state of art spectrum based fault localization method.

Research Assistant   April 2021 – Present
University of Electronic Science and Technology of China   *Chengdu, CHN*
- Dependence analysis on information sources combination by research assistant to Professor Yong Deng.
- Introduced the entropy and complexity measurement in uncertain situation, proposed a method to evaluate overlapping between information sources, discounted data based on their dependent degrees. The new method achieved increase of 3.5% in sensitivity weight assignment than method before.

Research Assistant   September 2021 – October 2021
Southwest University   *Chongqing, CHN*
- Graph computing in large group decision making area by ML research assistant to Professor Rui Cai.
- Adjusted k-means algorithms from Euclidean space distance to distance between evidence distance, improved the performance of clustering in belief probability assignment (BPA).

PUBLICATION

- An Empirical Study of Modeling Fault Localization as a Decision Making Process with Uncertainty and Ambiguity
  Yueke Zhang, Yu Huang, Kevin Leach
  Submitted to International Conference on Automated Software Engineering(ASE'22)
- Leveraging Fuzzy System to Reduce Uncertainty of Decision Making in Software Engineering Automation
  Yueke Zhang, Yu Huang
  Genetic Improvement(GI'2022) To Appear
- An improved fractal belief function model and its application in hierarchical decision making
  Yueke Zhang, *Rui Cai
  Soft Computing under review

PROJECTS

Second-hand trading website | *Group Project*   June 2021 – July 2021
- A website implemented springboot framework based on java aiming to help second-hand commodity trading in Southwest University.
- As team leader, I presided over the system analysis and task assignment. Finished the frontend development with CSS, javascript and HTML.

Programming project based on Java and C | *Individual Project*   March 2020 – May 2021
- A ping program. Implemented Java Swing to create GUI and queue structure to transport input.
- Multi clients chatting room. Adopted Socket and ServerSocket to build connection between clients and server.
- A information system on grade management. Achieved CRUD on a grade record system.
- A gluttonous snake game. Created data structure Snake and used pointer to indicate the next position of Snake.

TECHNICAL SKILLS

Languages: Mandarin(Native), English(Fluent, GRE 328+3), German(Novice)
Programming skills: Java, Python, C, Javascript, CSS, HTML, Latex, Shell