

HUI LIU

Guangxi Normal University ◇ Guilin, Guangxi, 541004, P.R.China
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EDUCATION

- ◇ **Guangxi Normal University**, Guilin, Guangxi, P.R.China
Master of Engineering in Software engineering, GA: 87.3/100
Research Area: Software Testing, Software Security, Software requirements.
Advisor: Prof. [Zhi Li](#)
Sep, 2020 – Jun, 2023
- ◇ **Anhui Normal University**, Wuhu, Anhui, P.R.China
Bachelor of Engineering in Software engineering
Sep, 2016 – Jul, 2020

SCHOLARSHIPS & AWARDS

- **2021** Guangxi Normal University **Third-class Scholarship**
- **2020** Guangxi Normal University **New Student Scholarships**
- **2020** ACM ICPC Asia Nanjing Regional Contest, **Honorable Mention**
- **2020** The 3rd Guangxi Collegiate Programming Contest, **The First Prize**
- **2020** Guangxi Collegiate Artificial Intelligence Design Contest, **The Third Prize**
- **2017, 2018** Anhui Normal University **Outstanding League Member**
- **2017-2020** Anhui Normal University **Third-class Scholarship** (four times)
- **2017** Mathematical Modeling Competition School Selection Round, **The Second Prize**

PUBLICATIONS & MANUSCRIPTS

- ◇ **Hui Liu**, Yunfang Li, Zhi Li*. EARS2TF: A Tool for Automated Planning Test from Semi-formalized Requirements. Accepted by *The 34th International Conference on Software Engineering and Knowledge Engineering (SEKE22)*. [[Elsevier](#)]
- ◇ **Hui Liu**, Zhi Li*. Automatic Generation of System-level Security Test Framework from Semi-formal Natural Language. Under review.

RESEARCH PROJECT EXPERIENCE

- ◇ **Adaptive Cruise Traffic Guidance System** *(Mar, 2018 – Mar, 2020)*
 - Task distribution: As the project leader, I assign tasks to team members and develop the android software.
 - Content: By automatically sensing the precise distance and accurate orientation between each vehicle body to collect information such as the location and speed of the vehicle, the system background three-dimensional modeling of the environment and generate the best diversion plan. By controlling all vehicles in the blocked area automatically, traffic jams can be resolved.
 - Achievements: Android Software with a Software Copyright, Tool: **Android Studio**, Database: **Lean Cloud**
- ◇ **Research on Problem-Oriented Obstacles Identification for Security Testing** *(Mar, 2021 – Apr, 2023)*
 - Task distribution: As the project leader, I need to complete the project independently.

- Content: This research generates a test framework from the requirements described in the requirements template EARS (Easy Approach to Requirements Syntax). It also uses the mainstream method of requirements engineering, problem framework, to model software requirements and derive test cases based on problem concerns to ensure that testers have the right direction and clear objectives for what they want to test.
- Achievements: A tool programmed with the domain-specific language **Xtext**, the statically typed programming language **Xtend**, that automatically generates system-level test information from semi-formal natural language.

SKILLS

Programming: Java, Python, Xtext, Xtend, React, HTML/CSS, C/C++, Markdown, LaTeX, Git

English: CET-6 486 (Listening 179, Reading 165, Writing&Translation 143)

Chinese: Native language