

SONGQIANG CHEN (陈崧强)

M.Eng Student majoring in Software Engineering
School of Computer Science, Wuhan University, China



RESEARCH INTERESTS

My research interests involve both AI4SE and SE4AI. Specifically, I devise deep learning-driven techniques to facilitate intelligent software engineering (for code, document, and linkage processing). Meanwhile, I explore efficient and systematic testing techniques (mainly based on Metamorphic Testing) for intelligent software (e.g., DL frameworks, QA software, Autonomous Driving systems, and translators), where I particularly value testing efficiency (e.g., on oracle & TCP) and diversity.

PUBLICATIONS

[ASE'21] *Testing Your Question Answering Software via Asking Recursively*
(this paper won the **ACM SIGSOFT Distinguished Paper Award**)

[Songqiang Chen](#), Shuo Jin, and Xiaoyuan Xie

[ESEC/FSE'21] *Validation on Machine Reading Comprehension Software without Annotated Labels: A Property-Based Method*

[Songqiang Chen](#), Shuo Jin, and Xiaoyuan Xie

[ASE'20] *Stay Professional and Efficient: Automatically Generate Titles for Your Bug Reports*

[Songqiang Chen](#), Xiaoyuan Xie, Bangguo Yin, Yuanxiang Ji, Lin Chen, and Baowen Xu

[ASE'22] *Boosting the Revealing of Detected Violations in Deep Learning Testing: A Diversity-Guided Method*

Xiaoyuan Xie, Pengbo Yin, and [Songqiang Chen](#)^{(#) (@)}

[ISSRE'22] *Towards the Robustness of Multiple Object Tracking Systems*

Xiaoyuan Xie, Ying Duan, [Songqiang Chen](#)^(@), and Jifeng Xuan

[ASE'21] *Property-based Test for Part-of-Speech Tagging Tool (NIER Track)*

Shuo Jin, [Songqiang Chen](#), and Xiaoyuan Xie

[ICPC'21] *Where to Handle an Exception? Recommending Exception Handling Locations from a Global Perspective*

Xiangyang Jia, [Songqiang Chen](#)^(*), Xingqi Zhou, Xintong Li, Run Yu, Xu Chen, and Jifeng Xuan

[IEEE TR] *MULA: A Just-In-Time Multi-labeling System for Issue Reports*

Xiaoyuan Xie, Yuhui Su, [Songqiang Chen](#)^(@), Lin Chen, Jifeng Xuan, and Baowen Xu

[IEEE GRSL] *Generating Multiscale Maps From Satellite Images via Series Generative Adversarial Networks*

Xu Chen, Bangguo Yin, [Songqiang Chen](#), Haifeng Li, and Tian Xu

[IEEE TGRS] *SMAPGAN: Generative Adversarial Network-Based Semisupervised Styled Map Tile Generation Method*

Xu Chen, [Songqiang Chen](#)^(*), Tian Xu, Bangguo Yin, Jian Peng, Xiaoming Mei, and Haifeng Li

^(*): I am the first student author. ^(#): I am the co-first author. ^(@): I am the (co-)corresponding author.

SELECTED PERSONAL HONORS

2020 - 2021 Graduate Student National Scholarship (Rank 1/264 in CS@WHU) - Ministry of Education of PRC

2019 CCF Elite Collegiate Award (ECA2019) - China Computer Federation (CCF)

2018 - 2019 National Scholarship - Ministry of Education of PRC

2017 - 2018 National Scholarship - Ministry of Education of PRC

Other scholarships awarded by Wuhan University, Huawei, Guotai J&A Securities, etc.

CONTACT

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Homepage

<https://imcsq.github.io>

EDUCATION

School of Computer Science,
Wuhan University | 2020-2023

Master of Engineering,
Major: Software Engineering,
Supervisor: Prof. Xiaoyuan Xie
Avg. Score: 93.3/100

School of Computer Science,
Wuhan University | 2016-2020

Bachelor of Engineering,
Major: Computer Science & Tech.,
GPA: 3.86/4.00

SERVICES

PC Member in ASE 2022

Artifact Evaluation Track.

(more assistant review experience c.f. homepage)

TA of Compiler Principle course
in CS @ WHU (2021 Spring).

RELEVANT SKILLS

English: IELTS 7.0 (sub \geq 6.0)

PL: Python, C++/C, Java

Comm & Leadership: Experience
as a class / SU leader and in co-
advising research groupmates.

Misc: Office, PS, Setup of Device
/ Software (skilful!), etc.