Xiaochen Li

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contacts

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publication

Google Scholar

languages

Chinese
English

basic info

Male
Jan. 1989

About

I am a Ph.D. candidate at OSCAR Lab, in Dalian University of Technology (DUT), China, under supervision with Prof. He Jiang from 2015.

My research interests include mining software repositories, open-source software engineering, and software semantic analysis.

In these researches, I analyze the crowd knowledge in the existing software engineering process and improve the development productivity or automate software tasks with machine learning techniques like representation learning and natural language analysis.

Specifically, with the crowd knowledge in GitHub and Stack Overflow, I conduct semantic analysis between code and natural languages to help developers search code and analyze APIs. I also analyze software artifacts from issue tracking systems to help developers/testers identify the causes of test failures, summarize bug/test reports, etc.

Education

09.2015-Now	Ph.D. in Software Engineering	Dalian University of Technology, China
	Thesis: *Report Generation and Comprehension for Software Bugs*	
09.2012-07.2015	M.Sc. in Software Engineering	Dalian University of Technology, China
	Thesis: *Data Driven Attribute Construction for Mining Software Repositories*	
09.2008-07.2012	B.Sc. in School of Software	Dalian University of Technology, China

Visiting

10.2017-12.2017	POSL Lab of Naoyasu Ubayashi	Kyushu University, Japan
	Invited by Prof. Yasutaka Kamei	
	Research in software engineering with focus on semantic relatedness analysis for software data (source code and natural languages)	

Student volunteer

DSA 2018. Fifth International Conference on Dependable Systems and Their Applications.
CSBSE 2013. The Second Chinese Search Based Software Engineering Workshop.
IEA/AIE 2012. The 25th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems.

Awards

2015-2018, Scholarship and Outstanding P.H. Candidate Student of DUT
2012-2014, Scholarship and Outstanding Master Candidate Student of DUT
2012, Outstanding Graduate of DUT

Research

Journal papers

[TRE 2019] Toward Better Summarizing Bug Reports with Crowdsourcing Elicited Attributes.

He Jiang, Xiaochen Li, Zhilei Ren, Jifeng Xuan, Zhi Jin.

IEEE Transactions on Reliability (TRE), 68(1): 2-22, 2019.

[TSE 2018] Bridging Semantic Gaps between Natural Languages and APIs with Word Embedding.

Xiaochen Li, He Jiang, Yasutaka Kamei, Xin Chen.

IEEE Transactions on Software Engineering, in press, Oct. 16, 2018.

[TOIT 2018] Fuzzy Clustering of Crowdsourced Test Reports for Apps.

He Jiang, Xin Chen, Tieke He, Zhenyu Chen, Xiaochen Li.

ACM Transactions on Internet Technology, 18(2), 18:1-18:28, 2018.

[TSC 2016] QECK: Query Expansion Based on Crowd Knowledge for Code Search.

Liming Nie, He Jiang, Zhilei Ren, Zeyi Sun, Xiaochen Li.

IEEE Transactions on Services Computing, 9(5): 771-783, 2016.

[FCS 2016] Source Code Fragment Summarization with Small-scale Crowdsourcing based Features.

Najam Nazar, He Jiang, Guojun Gao, Tao Zhang, Xiaochen Li, Zhilei Ren.

Frontiers of Computer Science, 10(3): 1-14, 2016.

[TOSEM Under Review] Recommending New Features from Mobile App Descriptions.

Jingxuan Zhang, He Jiang, Xiaochen Li, Zhilei Ren, Xindong Wu, David Lo.

ACM Transactions on Software Engineering and Methodology. Minor Revision, March 5, 2019.

[ESE Under Review] A Systemic Framework for Crowdsourced Test Report Quality Assessment.

Xin Chen, He Jiang, Xiaochen Li, Liming Nie, Dongjin Yu, Tieke He, Zhenyu Chen.

Empirical Software Engineering. Major Review, Feb 6, 2019.

Conference papers

[ICPC 2018] Unsupervised Deep Bug Report Summarization.

Xiaochen Li, He Jiang, Dong Liu, Zhilei Ren, Ge Li.

26th ACM/IEEE Conference on Program Comprehension, pp. 144-155, 2018.

[SANER 2018] Automated Quality Assessment for Crowdsourced Test Reports of Mobile Applications.

Xin Chen, He Jiang, Xiaochen Li, Tieke He, Zhenyu Chen.

25th IEEE International Conference on Software Analysis, Evolution and Reengineering, pp. 368-379, 2018.

[APSEC 2018] How are Issue Units Linked? Empirical Study on the Linking Behavior in GitHub.

Lisha Li, Zhilei Ren, Xiaochen Li, Weiqin Zou, He Jiang.

25th Asia-Pacific Software Engineering Conference, Nara, Japan. Dec. 4-7, 2018.

[ICSE 2017] What Causes My Test Alarm? Automatic Cause Analysis for Test Alarms in System and Integration Testing.

He Jiang, Xiaochen Li, Zijiang Yang, Jifeng Xuan.

39th International Conference on Software Engineering, pp. 712-723, 2017.

[SANER 2016] A More Accurate Model for Finding Tutorial Segments Explaining APIs.

He Jiang, Jingxuan Zhang, Xiaochen Li, Zhilei Ren, and David Lo.

25th IEEE International Conference on Software Analysis, Evolution and Reengineering, pp. 368-379, 2018.

[SSBSE 2015] Transformed Search Based Software Engineering: A New Paradigm of SBSE.

He Jiang, Zhilei Ren, Xiaochen Li, Xiaochen Lai.

Symposium on Search Based Software Engineering, pp. 203-218, 2015.

[Internetware 2014] What makes a good app description?

He Jiang, Hongjing Ma, Zhilei Ren, Jingxuan Zhang, Xiaochen Li.

Internetware 2014, pp. 45-53, 2014.

Reviews

2016 Reviewer of HASQ 2016 (International Workshop on Human and Social Aspect of Software Quality)

Invited talks

2018 Bridging Semantic Gaps between Natural Languages and APIs with Word Embedding — Wuhan, China

CSTAR Lab, Wuhan University

Bug Report Summarization — Zhengzhou, China

School of Software, Zhengzhou University

2017 Semantic Estimation for Texts in Software Engineering — Kyushu, Japan

POSL Lab of Naoyasu Ubayashi, Kyushu University

Paper presentation

2018 Unsupervised Deep Bug Report Summarization — Gothenburg, Sweden

26th ACM/IEEE Conference on Program Comprehension

2017 What Causes My Test Alarm? Automatic Cause Analysis for Test Alarms in System and Integration Testing

39th International Conference on Software Engineering — Buenos Aires, Argentina

Project

01.2018-12.2020 Intelligent Software Engineering — PI: He Jiang

National Science Fund for Excellent Young Scholars under Grants No. 61722202

01.2014-12.2017 Bug Report Priority with Its Applications — PI: He Jiang

National Natural Science Foundation of China under Grants No. 61370144