

Bui Duy Quoc Nghi

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Research Interests

My interests lie at the intersection of Software Mining, Natural Language Processing, and Machine Learning. I am interested in employing the power of Machine Learning to solve challenging software engineering problems.

Education

Doctor of Philosophy (Ph.D) in Information Systems 8/2016 — 8/2020 (expectation)
Singapore Management University

Bachelor in Computer Science 9/2009 — 10/2013
Advanced Program in Computer Science - Ho Chi Minh University of Science - Viet Nam

Work Experience

701Search - Viet Nam 3/2015 — 5/2016
Senior Software Engineer
Worked as a backend engineer to develop large-scale distributed systems that can handle millions of user requests per day for an e-commerce website.

Atlassian - Viet Nam 1/2014 — 2/2015
Software Engineer
Worked as a software engineer in JIRA team to develop useful libraries and features for internal usage.

Kwangwoon National University - Korea 8/2013 — 1/2014
Research Assistant
Got a research scholarship to work as a research assistant at Distributed Computing lab. The topic is about the applications of Network functions virtualization (NFV) to virtualize entire classes of network node functions.

Publications

SAR: Learning Cross-Language API Mappings with Little Knowledge, by Nghi D. Q. Bui, Yijun Yu, Lingxiao Jiang, accepted at the IEEE/ACM 27th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE), **Research Track**, Tallinn, Estonia, 2019 (To Appear)

Towards Zero Knowledge Learning for Cross-Language API Mappings, by Nghi D. Q. BUI, in Proceedings of the IEEE/ACM 41th International Conference on Software Engineering (ICSE): ACM Student Research Competition Track (SRC), Montreal, Canada, 2019

Bilateral Dependency Neural Networks for Cross-Language Algorithm Classification, by **Nghi D. Q. Bui**, **Yijun Yu**, **Lingxiao Jiang**, in the 26th edition of the IEEE International Conference on Software Analysis, Evolution and Reengineering (**SANER**), **Research Track**, Zhejiang University in Hangzhou, February 24-27, 2019

Hierarchical Learning of Cross-Language Mappings through Distributed Vector Representations for Code, by **Nghi D. Q. Bui**, **Lingxiao JIANG**, in Proceedings of the IEEE/ACM 40th International Conference on Software Engineering (**ICSE**): New Ideas and Emerging Technologies Results Track (**NIER**), Gothenburg, Sweden, 2018 - (ACM SIGSOFT Distinguished paper award)

Cross-Language Learning for Program Classification Using Bilateral Tree-Based Convolutional Neural Networks, by **Nghi D. Q. Bui**, **Lingxiao JIANG**, and **Yijun YU**. In the proceedings of the 32nd AAAI Conference on Artificial Intelligence (**AAAI**) Workshop on NLP for Software Engineering, New Orleans, Louisiana, USA, 2018.

Technical Skills

Languages: Python, Java, Scala, C/C++, C#, Javascript.
Database: MySQL, PostgreSQL, MongoDB, Redis, ElasticSearch.
Machine Learning: Tensorflow, Pytorch, Sklearn

Awards

- + 2019:
 - Top 3 in the ACM Student Research Competition, ICSE 2019
 - ACM SIGSOFT Travel Grant Award, ICSE 2019
- + 2018: ACM SIGSOFT Distinguished Paper Award, ICSE 2018
- + 2016: Ph.D. Scholarship from the Ministry of Education Singapore
- + 2015: Korean National Research Scholarship

References

Website: <https://bdqnghi.github.io>
Linkedin: <https://www.linkedin.com/in/quocnghi>
Github: <https://github.com/bdqnghi>