Jiaying Li

PhD Candidate Information System of Technology and Design Singapore University of Technology and Design

Address: 1.314, Singapore Univ. of Tech & Design, 8 Somapah Rd, Singapore, 487372

Tel: (+65)91327556

Email: lijiaying1989@gmail.com

Curriculum Vitae

Education Background

- B.E. in College of Software, Nankai University, Tianjin, China, 2007-2011
- Study in Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China, 2011-2013
- Ph.D. in ISTD, SUTD, Singapore, 2013-Now

Research Interest

In general, my research interest lies in program analaysis, programming language and software engineering.

Currently I am working on the topic to find loop invariant for a given program with loops in it, which stays at the heart of program verification and also the hardest part in this area.

I am also interested in machine learning and operating system topics.

Publications

- Jiaying Li, Jun Sun. **Learning Disjunctive Invariants based on Loop Structures** (under review)

- Jiaying Li, Jun Sun, Bo Gao and Etienne Andre **Classification-based Parameter Synthesis for Parametric Timed Automata** in ICFEM 2017, Nov. 13-17, Xi'an, China

- Jiaying Li, Jun Sun, Li Li, Quang Loc Le and Shang-Wei Lin **Automatic Loop-invariant Generation and Refinement through Selective Sampling** in ASE 2017, Oct. 30 - Nov. 3, Illinois, USA

- Truong Khanh Nguyen,Tian Huat Tan, Jun Sun, Jiaying Li, Yang Liu, Manman Chen, Jin Song Dong **Scaling BDD-based Timed Verification with Simulation Reduction** in ICFEM 2016, Nov. 14-18, Tokyo, Japan

- Jiaying Li, **An Invariant Inference Framework using Active Learning and SVMs** In ICECCS 2015, Dec 9-12, Gold Coast, Australia

Projects (dev@jiaying.li for supports)

- *zilu*: An Invariant Inference Framework homepage
- *pta-Learn*: Parametric Timed automata Learning homepage
- *zimu*: Structure-based Complext Invariant Learning Framework homepage