

Jiaying Li

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EDUCATION

SEP. 2013 - APR. 2018 (Expected)	Ph.D in COMPUTER SCIENCE, Singapore University of Technology and Design , Singapore Research area: Software Engineering, Program Analysis Advisor: Assoc. Prof. Jun Sun
SEP. 2011 - JUNE 2013	Study in INSTITUTE OF COMPUTING TECHNOLOGY Chinese Academy of Sciences , Beijing, China
SEP 2007 - AUG 2011	B.Eng. in SOFTWARE ENGINEERING Nankai University , Tianjin, China GPA: 3.9/4.0; RANK: 3/134

PROJECT EXPERIENCE

SEP 2016 - AUG 2017	ZIMU SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN, SINGAPORE Design a wound detection and classification system that runs on mobile phone. Responsible for design the wound detection and wound classification model, test on a complex wound image dataset with various sizes, lighting conditions, and qualities. Compress the model for mobile device. Implement the whole system on mobile device.
OCT. 2016 - APR. 2017	PTA-LEARN SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN, SINGAPORE Design an on-road vehicle counting system that counts the number of different types of vehicles. Responsible for design the vehicle detection and vehicle classification model, test on a vehicle image dataset taken under different weathers, lighting conditions. Design an on-road license plate recognition system. Responsible for design the license plate detection and recognition model, test on a vehicle video dataset with vehicles in various distances, angles.
DEC 2015 - JUNE. 2016	ZILU SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN, SINGAPORE Design an mobile imaging system that detect and conduct early diagnose on skin mole of being melanoma or not. Responsible for design the skin mole detection model, test on a skin mole image dataset with different resolutions and lighting conditions. Implement the whole system on mobile device.
JUNE 2015 - DEC. 2015	FIIF SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN, SINGAPORE Design an mobile imaging system that detect and conduct early diagnose on skin mole of being melanoma or not. Responsible for design the skin mole detection model, test on a skin mole image dataset with different resolutions and lighting conditions. Implement the whole system on mobile device.
OCT. 2010 - JUNE. 2011	OPERATING SYSTEM KERNEL NANKAI UNIVERSITY, CHINA Worked on establishing a pets watching system, used RFID to locate the pet and used a small robot car to watch and take care of the pet via online control. Responsible for the mechanical structure of the robot car and MCU programming for its control. Participated in the work of RFID location part and web connection part.

SCHOLARSHIPS

SEP 2013 - AUG 2017	SUTD President's Graduate Fellowship
SEP 2009	National Scholarship
OCT 2008	National Inspirational Scholarship

LANGUAGES

CHINESE: Mothertongue
ENGLISH: Fluent

PUBLICATION LIST

Jiaying Li, Jun Sun, Learning Disjunctive Invariants based on Loop Structures, *The 40th International Conference on Software Engineering*, Gothenburg, Sweden, 2018 (under review)

Jiaying Li, Jiaying Li, Jun Sun, Bo Gao and 'Etienne André', Classification-based Parameter Synthesis for Parametric Timed Automata, *The 19th International Conference on Formal Engineering Methods*, Xi'an, China, 2017

Jiaying Li, Jun Sun, Li Li, Quang Loc Le and Shang-Wei Lin, Automatic Loop-invariant Generation and Refinement through Selective Sampling, *The 32nd IEEE/ACM International Conference on Automated Software Engineering*, Illinois, USA, 2017

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, *The 19th International Conference on Formal Engineering Methods*, Tokyo, Japan, 2016

Jiaying Li, An Invariant Inference Framework using Active Learning and SVMs, *The 20nd International Conference on Engineering of Complex Computer Systems*, Gold Coast, Australia, 2015.

SKILLS

Programming language: Professional in C, C++, Bash shell
Operating Systems: Professional in Linux, Proficient in Windows and Mac

INTERESTS AND ACTIVITIES

Technology, Open-Source, Programming