Mengyuan WU

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February 2017

Research Interests

- Evolutionary computation
- Multiobjective optimization

- Stable matching theory
- Machine learning

Education

09/2014 - Present	Doctor of Philosophy in Computer Science
	City University of Hong Kong, Hong Kong
09/2013 - 07/2014	Master of Science in Industrial Sciences
	University of Leuven - KU Leuven, Belgium
09/2011 - 07/2013	Bachelor of Science in Industrial Sciences
	Group T - International University College Leuven, Belgium
09/2010 - 07/2011	Undergraduate Study
	Sichuan University, China

Research Experiences

09/2014 - Present	Stable Matching Theory in Multiobjective Evolutionary Algorithm Based on Decomposition (MOEA/D) City University of Hong Kong, Hong Kong
	Mentor: Professor Sam Kwong, Dr. Ke Li and Professor Qingfu Zhang
	Dealing with different issues in multiobjective evolutionary algorithms with the stable matching theory
09/2013 - 04/2014	Optimization of Network-on-Chip (NoC) Design Using Evolutionary
	Algorithms
	Glyndŵr University, UK in collaboration with Newcastle University, UK
	Mentor: Dr. Bo Liu
	Designed a surrogate model assisted evolutionary algorithm for NoC design
06/2013 - 09/2013	Antenna Design Automation
	Glyndŵr University, UK in collaboration with KU Leuven, Belgium
	Mentor: Dr. Bo Liu
	Worked on linking MATLAB and electromagnetism simulation software
09/2013 - 06/2014	Master Thesis: Implementation of a Feature Detection Algorithm on FPGA
	System-on-Chip (SoC) Boards for Robot Cars
	KU Leuven, Belgium
	Mentor: Dr. Lin Zhang

Implemented the SURF algorithm on an FPGA SoC board for object detection

Teaching Experiences

Tutorial Instructor

Fundamentals of Internet Applications Development (CS2204) - Semester B 2016/17

Teaching Assistant

- Computer Networks (CS3201) Semester A 2016/17
- Introduction to Internet and Programming (CS1303) Semester B 2015/16
- Fundamentals of Computer Networks and the Internet (C3270) Semester B 2014/15
- Computer Networks (CS3201) Semester A 2014/15

Publications

- M. Wu, K. Li, S. Kwong, Y. Zhou, Q. Zhang, "Matching-based selection with incomplete lists for decomposition multi-objective optimization", IEEE Transactions on Evolutionary Computation, 2017.
- Y. Zhou, S. Kwong, Q. Zhang, and **M. Wu**, "Adaptive patch-based sparsity estimation for image via MOEA/D," Evolutionary Computation (CEC), 2016 IEEE Congress on, 2016.
- M. Wu, S. Kwong, Q. Zhang, K. Li, R. Wang, B. Liu, "Two-Level Stable Matching-Based Selection in MOEA/D," Systems, Man, and Cybernetics (SMC), 2015 IEEE International Conference on, 2015.
- M. Wu, A. Karkar, B. Liu, A. Yakovlev, G. Gielen and V. Grout, "Network on chip optimization based on surrogate model assisted evolutionary algorithms," Evolutionary Computation (CEC), 2014 IEEE Congress on, 2014.

Skills

• Computer Skills: Java, C/C++, MATLAB, Python, LaTeX, HTML

• Language Skills: Chinese, English