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Multi-objective Bayesian global optimization for continuous problems and applications

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Curriculum Vitae

Kaifeng Yang was born on December 23rd, 1987 in Fufeng, Shaanxi, People's Republic of China. He received his Bachelor degree in Automation at School of Information Science and Engineering at Central South University in July 2010. In his bachelor thesis, he investigated fuzzy controller on an intelligent car, which can navigate by itself, using Freescale and STMicroelectronics microcontroller unit(s) under the supervision of Dr. Ji Wang.

He was recommended to the same department as a Master student under the supervision of Dr. Ji Wang in September 2010. During his Master degree, he won the first prize in Freescale Cup Intelligent Car in 2011. For his master thesis, he implemented a genetic algorithm to solve the power network reconfiguration problem for single- and bio- objective optimization. In 2013, he finished his graduate studies successfully and received his MSc in Control Engineering in July 2013.

In September 2013, he joined the research group headed by Prof. Thomas Bäck. He started his Ph.D. research at the Leiden Institute of Advanced Computer Science (LIACS), under the supervision of Prof. Thomas Bäck and Dr. Michael Emmerich. His Ph.D. research was founded by China Scholarship Council (CSC). His research primarily focuses on hypervolume-based multi-objective Bayesian global optimization and preference-based multi-objective optimization. He also participated in a short project of predictive analytics in LIACS. Besides his research, he also acted as a teaching assistant for several courses in LIACS, including Evolutionary Algorithms and Natural Computing.