DI WU

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EDUCATION

Columbia University, New York, NY   Aug. 2018 - Dec. 2019 (expected)
M.S., Electrical Engineering
Courses: Analysis of Algorithms, Statistical Learning for Biological and Information Systems, Bayesian Models for Machine Learning, Big Data Analytics

Beihang University, Beijing, CN   Sep. 2014 - Jul. 2018
B.S., Electronic & Information Engineering
GPA: 3.56/4.00
Courses: Programming Language C, Digital Signal Processing, Image Signal Processing
Honors: Excellent graduates of colleges in Beijing, Huawei Scholarship, Kwang-Hua Scholarship

EXPERIENCE

National Key Laboratory of CNS/ATM   Beijing, CN
Research Assistant   May 2017 - Jun. 2018
- Proposed Particle Swarm Optimization with Moving Particles on Scale-Free Networks (MP-PSO) inspired by the idea of better balancing exploration and exploitation in optimization, and making full use of the heterogeneous property of scale-free networks
- Lucubrated properties of MP-PSO via performing a large number of simulation experiments: selected values of key variables, compared MP-PSO with other PSOs to test its advantages, investigated possible internal mechanism of MP-PSO in a view of network science, and demonstrated the applicability of MP-PSO on important real-life optimization problems
- Wrote paragraphs and drew graphs for the research paper
- Submitted the research paper as the first author, which has been accepted by *IEEE Transactions on Network Science and Engineering* (doi: 10.1109/TNSE.2018.2854884)

Beijing Forever Technology Co., Ltd.   Beijing, CN
Software Develop Engineer Intern   Sep. 2017 - Oct. 2017
- Participated in developing the contact module of the latest version of a mobile application, which based on real-life enterprise structure and made the communication in groups much more efficient
- Designed and developed the primary version of the mobile application *Color Matching* for designers and front-end engineers, to make color searching and matching easier

Electronic Innovation Contest, Beihang University   Beijing, CN
Developer and Core Member   Nov. 2014 - Dec. 2014
- Wrote codes for a vehicle model to automatically navigate mazes via Arduino microcontrollers
- Designed an 8*8 LED lattice status indicator light on the basis of realizing basic functions, which could show signs of going straight or turning left and right
- Leaded the group during the process and awarded 2nd prize in the contest

SKILLS

Computer: C, Python, Matlab, JavaScript, R, Qt, LaTeX, Linux, Adobe Photoshop, Premiere
Hobby: Video making (masterpiece: International UAS China 2016, Graduation Film of the college)

ACTIVITIES

Student Union of Qiming College, Beihang University   Beijing, CN
Head of Publicity Department   May 2015 - May 2016
Promoted activities in Qiming College via creative publicity methods, and acted as the deputy editor of *Venus* (a student magazine), which releases 6 volumes annually and obtained 1500+ regular readers

Summer Social Practice, Beihang University   Jinhua, CN
Director of Publicity Group   Jul. 2016 - Aug. 2016
Conducted a survey and entered a crew in Hengdian World Studios, to understand living and working conditions of extras (an underprivileged group), and produced a micro documentary to present the group to more people