SHENGHUA HE

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CURRENT RESEARCH INTERESTS

Big data
Machine Learning
Compressive sensing
Intelligent computation algorithm
Mobile Computing

EDUCATION

Sep.2012-Current **Beijing University of Posts & telecommunications (BUPT)**, Beijing, China
Master of Engineering, Electronics and Communication Engineering
GPA: 80/100

Sep.2008-Jul.2012 **Wuhan University of Technology (WHUT)**, Wuhan, China
Bachelor of Engineering, Electronics Science and Technology
GPA: 88/100

WORK EXPERIENCE

Sep.2013-Current **Graduate Research Assistant**, Beijing Key Lab of Network System Architecture and Convergence, BUPT, Beijing, China.
I work on the area of intelligent optimization algorithms, such as Genetic Algorithm (GA), Particle Swarm Algorithm (PSO) and Q-Learning Algorithm, and put them into practice on wireless resource optimization in multiuser OFDM systems and HetNet. Based on these researches, I have authored one journal article (SCEI & EI), and four international conference papers (EI).

May 2013-Sep.2013 **Android R&D Intern**, Beijing Novel-TV Media Technology Co., Ltd, Beijing.
As a participant in the research and development (R&D) of an on-line video interactive system, I bore full responsibility for the R&D of the Android client, which contains three major functions: user login management, user camera selection management and video capture. During this period, I have not only practiced my skills on Java programming, but also learned the fundamental knowledge of video sampling, encoding and decoding.

Oct.2012-May 2013 **Android R&D Assistant**, Beijing Key Lab of Network System Architecture and Convergence, BUPT, Beijing.
As a participant in the R&D of a video conference system, which supports video conference between PC users and Android users, I was responsible for the development of the user interface for the Android client, which contains the login management and user interface design. During this period, my skills on Java programming in Android environment has been developed.

PUBLICATIONS

Journal Articles: S. **He**, L. Zhang, X. Wen, Z. Zhang, Z. Lu, and Y. Sun, "A Pricing Pow-

er Control Strategy with Statistical Delay QoS Provisioning in Two-tier OFDMA Femtocell Networks," in *EURASIP Journal on Wireless Communications and Networking*, under review.

Conference Articles: **S. He**, L. Zhang, X. Wen, Z. Zhang, Z. Lu, and Y. Sun, "Price-based power control with statistical delay QoS guarantee in two-tier femtocell networks," in *2014 21st International Conference on Telecommunications (ICT)*, May 2014, pp. 318-322.

S. He, Z. Lu, X. Wen, Z. Zhang, Y. Sun and L. Zhang, "Energy-Efficient Power Allocation with QoS Guarantee in OFDMA Wireless Networks," in *2014 17th International Symposium on Wireless Personal Multimedia Communications (WPMC)*, to be published in Sep. 2014

L. Zhang, **S. He**, X. Wen, Z. Wei, J. Zhao, and Z. Hu, "Network MIMO with decision tree classification in downlink OFDMA networks," in *2014 21st International Conference on Telecommunications (ICT)*, May 2014, pp. 22¨C26.

Z. Zhang, X. Wen, Z. Li, **S. He**, W. Jing, and J. Zhao, "Qos-aware energy-efficient power control in two-tier femtocell networks based on qlearning," in *2014 21st International Conference on Telecommunications (ICT)*, May 2014, pp. 313-317.

PRESENTATIONS

May 6th,2013 "Price-based power control with statistical delay QoS guarantee in two-tier femtocell networks", Lecture at ICT 2014, Lisbon Institute of University, Lisbon, Portugal

HONORS

Sep.2012-Sep.2013 Third Scholarship, BUPT, Beijing, China
Sep.2012-Sep.2013 Second Scholarship, BUPT, Beijing, China
Sep.2011-Sep.2012 Outstanding Graduate Award, WHUT, Wuhan, China
Sep.2010-Sep.2011 National Scholarship of Encouragement, Ministry of Education, China
 Excellent Student Work Award, WHUT, Wuhan, China
Sep.2009-Sep.2010 National Scholarship of Encouragement, Ministry of Education, China
 Excellent Student Work Award, School of Information Engineering, WHUT, Wuhan, China
Sep.2008-Sep.2009 National Scholarship of Encouragement, Ministry of Education, China
 3-A student award, WHUT, Wuhan, China

SKILLS

Programming Languages: Java, C/C++
Development Tools: Eclipse, Matlab
Data Analysis: Origin
Development Environment: Android

ENGLISH PROFICIENCY

GRE: 312 Quantitative: 164; Verbal: 148; Analytical Writing: 3.
TOEFL:83 Reading: 26; Listening: 18; Speaking: 18; Writing: 21