SHENGHUA HE

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CURRENT RESEARCH INTERESTS

Game theory
Big data
Compressive sensing
Intelligent computation algorithm
Resource allocation in OFDMA networks

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 resource allocation in multiuser OFDM systems and heterogenous networks, and I author four international conference papers (EI) and one paper (SCEI & EI).
May 2013-Sep.2013	**Android R&D Intern**, Beijing Novel-TV Media Technology Co., Ltd, Beijing. I have participated in the R&D of a on-line video interactive system. I was responsible independently for the R&D of the Android client, which contains three major functions: user login management, user camera selection management and video capture.
Oct.2012-May 2013	**Android R&D Assistant**, Beijing Key Lab of Network System Architecture and Convergence, BUPT, Beijing. I have participated in the research and development (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.
Aug.2012-Oct.2012	**Graduate Research Assistant**, Beijing Key Lab of Network System Architecture and Convergence, BUPT, Beijing, China. I did research in the area of intelligent computation algorithm, such as PSO algorithm, genetic algorithm and Q-learning algorithm.

PUBLICATIONS

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