Sinong Wang（王思浓）

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Objective

◆   Ph.D. degree in "Electronic Engineering"

Education

Bachelor of Electronic Engineering   **Xidian University (XDU)**   **Sept.2010-Jun.2014**

◆ Be recommended for admission to Pilot Class (66 elected from 960) due to first prize of Chinese Mathematical Olympiad in high school;

◆ GPA: 91.5/100 (overall), 93.5/100 (major); Rank: 1/560 (top 0.18%);

◆ **Full mark** in most basic and major courses: *Mathematical Analysis*, *Linear Algebra, Probability Theory and Statistics*, *Random Process, Field theory, Complex Function, General Physics, Digital signal processing, Fundamental of Circuit Analysis;*

PhD candidate of Electronic Engineering   **Shanghai Jiao Tong University (SJTU)**   **June.2014-Present**

Publications

◆ **Sinong Wang**, Xiaohua Tian and Hui Liu, "Exploiting the Unexploited of Coded Caching for Wireless Content Distribution," *ICNC 2015.* (accepted with high grade, potential on "Best Paper Award")

◆ **Sinong Wang**, Muhan Zhang, Xiaowen Li, Xiaohua Tian, Xinbing Wang. "Dynamic Coded Caching for Massive Content Distribution over Wireless Networks," *INFOCOMM 2015.* (under review)

◆ **Sinong Wang**, Xiaohua Tian and Hui Liu, "Delay Reduces Traffic in Wireless Caching Network", IEEE Transactions on Vehicular Technology (under review)

◆ Zhe Liu, **Sinong Wang**, Weijie Wu, Xiaohua Tian, Changle Li and Xinbin Wang, "A Predictive Methodology for Truthful Double Spectrum Auctions in Cognitive Radio Networks," GLOBECOM 2014. (accepted)

◆ Zhe Liu, Weijie Wu, **Sinong Wang**, Xiaohua Tian, Changle Li and Xinbin Wang, "On Resource Allocation and Pricing in Hybrid Cloud: A Hierarchical Approach", *INFOCOMM 2015.* (under review) (All papers are available on my personal website.)

Research Experiences

Coded Cache in Wireless Network, Advisor: Prof. Xiaohua Tian and Prof. Xinbin Wang   Jan. 2014-Present

Shanghai Jiao Tong University, Institute of Wireless Communication and Technology

◆ Designed an order optimal coded cache scheme for nonuniform user demands; completed one paper to target the "Best Paper Award" of IEEE ICNC 2015.

◆ Generalized the static coded caching scheme to the dynamic coded caching scheme; designed a high-order Markov model to predict the content popularity distribution; completed one paper submitted to IEEE INFOCOMM 2015.

◆ Researched on the delay-traffic trade-off in single bottleneck network; first work to address this problem; constructed the lower bound of such problem; presented two classes of schemes under two scenarios and analyzed their trade-off; completed one paper submitted to IEEE Transactions on Vehicular Technology.

Green Cloud Network Architecture in Data Center, Advisor: Prof. Huaxi Gu   Apr. 2012-Jun. 2013

Xidian University, State Key Laboratory of Integrated Service Network

- ◆ Participated in project as the principal investigator, *Green Cloud Network Architecture in Data Center*, supported by the National University Student Innovation Program.
- ◆ Researched on the how to schedule resource in the data center, especially on aspects of the virtual machine placement; proposed a new approach to VM placement jointly considering the server resource utilization and load balancing; published one paper in IEEE International Conference on Networking, Architecture, and Storage.

Engineer Experience   Apr. 2012-Jan. 2014

Xidian University, State Key Laboratory of Integrated Service Network

- ◆ Project engineer of Android App development for the "Intelligent taxi system", same as Hailo; responsible for the development of Android client; including the design of date transmission, taxi scheduling method (based on SPFA) and the UI; completed one Chinese Patent, 201310415981.1.
- ◆ Project engineer for constructing the routing protocol of data center; gave two presentations.

Other Experience   Mar. 2011-Present

Xidian University

- ◆ Participated in Interdisciplinary Contest in Modeling (ICM) 2013 as team leader, researched on predicting future state of the earth ecosystem and was awarded Meritorious Winner.
- ◆ Principal investigator in project, Fast 3D reconstruction; constructed a demo to reconstruct 3D graphics from two different 2D graphics; based on the principle of binocular imaging; completed one Chinese Patent, "Natural growth reconstruction method", 201310128903.3.

Activities

- ◆ *Secondary reviewer* for IEEE Infocom, IEEE Globecom, IEEE MASS, Journal on Wireless Communications and Networking, IEEE Transactions on Vehicular Technology, IEEE Transactions on Mobile Computing, IEEE Transactions on Communication and Springer Wireless Networks (WINET)

Honors &Awards

- ◆ Awarded Meritorious Winner, Interdisciplinary Contest in Modeling (ICM)   2013
- ◆ National Scholarship (top 1%)   2011
- ◆ Awarded the second-prize, "Challenge Cup" National Undergraduate Curricular Academic Science and technology works   2013
- ◆ Awarded the second-prize, China Undergraduates Mathematical Contest Modeling (CUMCM)   2012
- ◆ Awarded the Outstanding Graduates of Xidian University (top 1%)   2014
- ◆ Awarded the Outstanding Student of Xidian University (top 2%)   2013&2014
- ◆ The Special Scholarship of Xidian University (top 1%)   2011&2012
- ◆ The First-class Scholarship of Xidian University (top2%)   2013&2014
- ◆ ZTE Scholarship (top 0.3%)   2013
- ◆ GOODIX Scholarship (top 0.05%)   2014
- ◆ Awarded the first-prize, Speech contest of Xidian University   2012
- ◆ Awarded the first prize, Chinese Mathematical Olympiad in Senior (CMO)   2009

Skills

English Level: GRE (V: 153; Q: 170), TOEFL (81)

IT Skills: Skilled in use of MS Office software, originLab and LaTeX; programming languages: C++ (proficient), Java, MATLAB (proficient), LABVIEW, C; a lot of experience in Android; National Certificate in Computing Level 3