

# KAIQI XIONG

## EDUCATION

**North Carolina State University**, Raleigh, North Carolina

Ph. D., Computer Science, Department of Computer Science

M.S., Computer Engineering, Department of Electrical and Computer Engineering

**Claremont Graduate School** (now Claremont Graduate University), Claremont, California

Ph.D., Mathematics, Department of Mathematics

M.S., Mathematics, Department of Mathematics

## WORK EXPERIENCE

**Assistant Professor**, Department of Computer and Information Science, Texas A&M University, Commerce, TX, August 2008 -

- Teach undergraduate and graduate courses: Introduction to Network Security, Fundamentals of Information Security and Assurance, Computer Architecture, Algorithm Design, and Object-oriented Programming
- Conduct several research projects in the areas of computer and network security, next generation networks, cloud computing, cluster computing, and power grid security

**Member of Technical Staff**, Server Group, IBM, RTP, NC, 2001-2004

- Researched on the performance of network devices, server architecture and storage systems such as Infiniband, iSCSI, Ethernet and fiber switches, NAS, SAN, and blades
- Developed performance simulation tools and built analytic model for performance prediction and management of a variety of network, server, storage products

## SELECTED REFERRED JOURNAL and CONFERENCE PUBLICATIONS

1. K. Xiong and S. Suh, Resource provisioning in SLA-based cluster computing, *Proceedings of the Job Scheduling Strategies for Parallel Processing (JSSPP)*, 1-15, Georgia, USA, 2010; Its revised version is published in Lecture Notes on Computer Science Series, Springer-Verlag
2. K. Xiong and D. Thunte, Dynamic localization schemes in malicious sensor networks, *Journal of Networks*, no. 8, 677-686, 2009
3. K. Xiong and H. Perros, Security-aware resource management in distributed service computing, *Handbook of Research on Telecommunications Planning and Management for Business* (Invited book chapter), Information Science Reference, 2009
4. K. Xiong, Multiple priority customer service guarantees in cluster computing, *Proceedings of IEEE International Parallel & Distributed Proceeding Symposium (IPDPS)*, 2009
5. K. Xiong, H. Perros, and S. Blake, Bandwidth provisioning in ADSL access networks, *International Journal of Network Management*, vol. 5, 2009
6. K. Xiong and H. Perros, Service performance and analysis in cloud computing, *Proceedings of the IEEE Congress on Service*, 2009
7. K. Xiong and H. Perros, Trustworthy Web services optimization in differentiated customer services, *Telecommunication Systems*, vol. 39, no. 3-4, pp.171-185, 2008
8. K. Xiong and H. Perros, SLA-based resource allocation in cluster computing systems, *Proceedings of IEEE International Parallel & Distributed Proceeding Symposium (IPDPS)*, Miami, Florida, 2008

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9. K. Xiong and D. Thuente, Efficient localization schemes in sensor networks with malicious nodes, *Proceedings of International Conference on Security and Cryptography (SECRYPT)*, 190-196, Porto, Portugal, 2008
10. K. Xiong and H. Perros, Trust-based resource allocation in Web services, *Proceedings of IEEE International Conference on Web Services (ICWS)*, 663-672, 2006

## **PATENTS**

1. J. Rodriguez and K. Xiong, Multilevel analysis of self-similar network traffic, U.S. Patent No. 7,321,555, January 22, 2008
2. J. Rodriguez and K. Xiong, MMPP analysis of network traffic using a transition window, U.S. Patent No. 7,330,427, February 12, 2008

## **SYNERGISTIC ACTIVITIES**

### **Editor-in-board**

International Journal of Advanced Science and Technology, 2008-present  
The Board of Directors in the Science and Engineering Support Society, 2009-present

### **Technical program committee member**

The 12<sup>th</sup> IEEE International conference on high performance computing and communications (HPCC) – Trust, security and privacy, 2010  
The International Conference on Security-enriched Urban Computing and Smart Card (SUCoS), 2010  
The 6<sup>th</sup> IEEE/IP International Symposium on Trusted Computing and Communications (TrustCom), 2010  
The IEEE Global Telecommunications Conference (Globecom) - Computer and Communications Network Security 2008, 2009, 2010  
The IEEE International Conference on Communications – Computer and Communications Network Security (ICC-CCNS, CISS) 2007, 2009  
The International e-Conference on Advanced Science and Technology (AST), 2009, 2010  
The International Symposium on Computer Science and its Applications (CSA), 2008

**Regular reviewer for *Mathematical Reviews*** by American Mathematical Society, 1995-present

## **AWARDS AND RECOGNITIONS**

Faculty Teaching Excellence Award, Texas A&M University System, July 2010  
One of the runner-up winners for the Best Student Paper Award, IEEE Globecom, 2006  
IBM Invention Achievement Award, 2003  
Dissertation Research Award, Claremont Graduate School (CGS), 1995-1996  
The Best Student Paper Prize, Society for Industrial and Applied Mathematics, 1994  
Fellow, the Mountain View Foundation, Aug 1994 - May 1995