

## Zongming Fei

Department of Computer Science  
University of Kentucky  
Lexington, Kentucky 40506

### Education

Year	Degree	Institution
2000	Ph.D. (Computer Science)	Georgia Institute of Technology
1999	M.S. (Computer Science)	Georgia Institute of Technology
1986	B.S. (Computer Science)	Nanjing University, China

### Employment

Date	Title	Organization
2006-present	Associate Professor	University of Kentucky
2000-2006	Assistant Professor	University of Kentucky

### Five Most Significant Publications

1. Ellen W. Zegura, Mostafa H. Ammar, Zongming Fei, Samrat Bhattacharjee, "Application-layer anycasting: a server selection architecture and use in a replicated web service", *IEEE/ACM Transactions on Networking*, vol.8, no.4, pp.455-466, August 2000.
2. Zongming Fei, Mostafa H. Ammar, Ibrahim Kamel, Sarit Mukherjee, "An active buffer management technique for providing interactive functions in broadcast video-on-demand systems," *IEEE Transactions on Multimedia*, vol.7, no.5, pp.942-950, October 2005.
3. Zongming Fei, Mengkun Yang, "A segmentation-based fine-grained peer sharing technique for delivering large media files in content distribution networks," *IEEE Transactions on Multimedia*, vol.8, no.4, pp.821-829, August 2006.
4. Zongming Fei, Mengkun Yang, "A proactive tree recovery mechanism for resilient overlay multicast," *IEEE/ACM Transactions on Networking*, vol.15, no.1, pp.173-186, February 2007.
5. Mengkun Yang, Zongming Fei, "A novel approach to improving search efficiency in unstructured peer-to-peer networks", *Journal of Parallel and Distributed Computing*, vol.69, no.11, pp.877-884, November 2009.

### Five Other Publications

1. Zongming Fei, Mostafa Ammar, Ellen Zegura, "Multicast server selection: problems, complexity and solutions," *IEEE Journal on Selected Areas in Communications*, vol.20, no.7, pp.1399-1413, September 2002.
2. Mengkun Yang, Zongming Fei, "A proactive approach to reconstructing overlay multicast trees," *Proceedings of IEEE INFOCOM 2004*, Hong Kong, March 2004.

3. Zhen Zhang, Zongming Fei, "Route Design for Multiple Ferries in Delay Tolerant Networks," *Proceedings of IEEE Wireless Communications and Networking Conference (WCNC 2007)*, Hong Kong, March 11-15, 2007.
4. Jianjun Yang, Zongming Fei, "A New Channel Assignment Algorithm for Wireless Mesh Networks", *International Journal of Pervasive Computing and Communications*, vol.5, no.3, pp.233-248, 2009.
5. Jianjun Yang, Zongming Fei, "ITGR: Intermediate Target Based Geographic Routing", *The 19th International Conference on Computer Communications and Networks (ICCCN 2010)*, Zurich, Switzerland, August 2010.

### **Funded Research Projects**

- James Griffioen, Zongming Fei, "A ShadowBox-based ProtoGENI Instrumentation and Measurement Infrastructure", NSF through BBN Technologies, October 1, 2009 - September 30, 2012, \$598,965.
- James Griffioen, Zongming Fei, "Instrumentation Tools for a GENI Prototype", NSF through BBN Technologies, September 1, 2008 - August 31, 2011, \$398,775.

### **Collaborators**

- Jacobus van der Merwe (AT&T), Emmanuil Mavrogiorgis (AT&T), Eric Boyd (Internet2), Brian Cashman (Internet2), Martin Swany (University of Delaware), Robert Ricci (University of Utah)

### **Students and Postdoctoral Scholars**

- Ph.D. Students: Jianjun Yang, Shuhua Wang, Ping Yi, Jianning Liu

### **Graduate and Postdoctoral Advisors**

- Ph.D. Advisor: Dr. Mostafa Ammar (Georgia Institute of Technology)

### **Professional Activities and Awards**

- Program committee member of SERA'10, CDN'10, UPGRADE-CN'09, ICPADS'08, ICDCS'06, INFOCOM'06, Globecom'05, ICCCN'04, NOSSDAV'03, WCW'03
- Reviewer for: Computer Networks, IEEE/ACM Transactions on Networking, IEEE Journal on Selected Areas in Communications, IEEE Transactions on Computers, IEEE Transactions on Multimedia, IEEE Transactions on Knowledge and Data Engineering, IEEE Transactions on Broadcasting, Journal of World Wide Web, Journal of Parallel and Distributed Computing, INFOCOM, ICNP, ICC, NOSSDAV, WCW, Addison Wesley, Prentice Hall, McGraw-Hill
- Member of: IEEE, ACM Sigcomm