Sue Moon

KAIST Chair Professor

Dept. of Computer Science
KAIST
Deahakro 291, Yuseong-Gu
Daejeon 305-701
South Korea

Email: *sbmoon@kaist.edu*
URL: *http://an.kaist.ac.kr/˜sbmoon*
Office: N1 Room No. 608
Office Phone: +82-42-350-3548
Fax: +82-42-350-3510

INTERESTS

Networking systems; online social networks

EDUCATION

Ph.D., 2000, Computer Science, University of Massachusetts Amherst
  Thesis: "Measurement and Analysis of End-to-End Delay and Loss in the Internet,"
    supervised by Jim Kurose and Don Towsley
M.S., 1990, Computer Engineering, Seoul National University
B.S., 1988, Computer Engineering, Seoul National University

AWARDS

KAIST chair professorship (2011-2014)
4th Knowledge Creation Award by the Ministry of Education, Science, and Technology (2012)
16th Young Engineer's Award by National Academy of Engineering of Korea (2012)
Best Poster at ACM SIGCOMM Conference (2010)
Amore Pacific Award for Outstanding Women in the Sciences (2009)
Best Paper at ACM SIGCOMM Internet Measurement Conference (2007)

WORK EXPERIENCE

- Full Professor; March 2012 - present at KAIST
- Visiting Scholar; August 2012 - January 2013 at Microsoft Research at Cambridge UK
- Associate Professor; September 2006 - February 2012 at KAIST
- Visiting Scholar; September 2007 - August 2008 at University of California San Diego
- Visiting Scholar; March 2008 at Telefonica Research Lab in Barcelona, Spain
- Assistant Professor; August 2003 - August 2006 at KAIST
- Principal MTS; October 1999 - July 2003 at Sprint ATL
- Staff Engineer; March 1990 - December 1991 at IMIGE Systems Inc., Korea.

SELECTED PAPERS

1. "The power of batching in the Click modular router," J. Kim, S. Huh, K. Jang, KS Park, S. Moon, *USENIX/SIGOPS Asia-Pacifc Workshop on Systems (APSys)*, July 2012.
2. "SSLShader: cheap SSL acceleration with commodity processors," K. Jang, S. Han, S. Han, S. Moon, KS Park, *USENIX NSDI*, April 2011.
3. "PacketShader: a GPU-accelerated woftware router," S. Han, K. Jang, KS Park, S. Moon, *ACM SIGCOMM*, August 2010.
4. "What is Twitter, a social network or a news media?" H. Kwak, C. Lee, H. Park, S. Moon, *19th World-Wide Web (WWW) Conference*, April 2010.
5. "I tube, you tube, everybody tubes: analyzing the world's largest user generated content video system," M. Cha, H. Kwak, P. Rodriguez, Y.-Y. Ahn, S. Moon, *ACM SIGCOMM Internet Measurement Conference (IMC) 2007*, Oct. 2007. (**Best Paper Award**)
6. "Analysis of topological characteristics of huge online social networking services," Y.-Y. Ahn, S. Han, H. Kwak, S. Moon, H. Jeong, *16th World-Wide Web (WWW) Conference*, May 2007.

7. "Analysis of Measured Single-Hop Delay from an Operational Backbone Network," K. Papagiannaki, S. Moon, C. Fraleigh, P. Thiran, C. Diot, *IEEE Journal on Selected Areas in Communications*, Vol. 21, No. 6, Aug. 2003.

8. "Packet-Level Traffic Measurements from the Sprint IP Backbone," C. Fraleigh, S. Moon, C. Cotton, M. Khan, D. Moll, R. Rockell, T. Seely, C. Diot, *IEEE Network*, Nov/Dec, 2003.

9. "Estimation and Removal of Clock Skew from Network Delay Measurements," S. Moon, P. Skelly, D. Towsley, *IEEE INFOCOM*, Mar. 1999.

10. "Packet Audio Playout Delay Adjustment: Performance Bounds and Algorithms," S. Moon, J. Kurose, and D. Towsley, *ACM/Springer Multimedia Systems*, Vol. 6, pp. 17-28, Jan. 1998.

SELECTED LIST OF INVITED TALKS

- Invited speaker at the Library of Congress in Korea for WISET (Center for Women in Science, Engineering and Technology), "Your home computer as an Internet router?"
- Plenary speaker at NetSci 2013, "Network topological structures in the Internet and OSNs"
- Invited speaker at the 3rd International Conference on Social Informatics, "Analysis of Twitter unfollow: how often and why"
- Keynote speaker at CoNEXT Student Workshop 2011, "A few tips I wish I had before I met my advisors"

PROFESSIONAL SERVICE

Currently serving as vice organizing chair for WWW 2014; served as TPC chair for WWW 2013, APSys 2011, ACM Multimedia 2004, 1st PlanetLab Asia Workshop 2005, and KAIST Networking Seminar Series 2004-2007; served as general chair for APSys 2012, PAM 2009, and CFI 2009; in program committees for WWW 2007-2009 and 2011-2012; in executive committee for ACM SIGCOMM 2008-2010.

Past service includes: USENIX NSDI 2008, INFOCOM 2003-2006, NOSSDAV 2002-2004, SIGCOMM IMC 2005, ACM SIGMETRICS 2005, CoNEXT 2005, ACM Multimedia 2005.

TEACHING

Taught graduate courses on Network Architecture and Advanced Networking; taught undergraduate courses on Introduction to Programming, Data Structures, Introduction to Computer Networking, and Interdisciplinary Approach to Network Science.