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EDUCATION

- **Ph.D.** in Computer Engineering, School of Engineering, Pennsylvania State University, May 1991.
- **MS** in Computer Science, Korea Advanced Institute of Science and Technology, February 1983.
- **BE** in Electronics Engineering, Hanyang University, February 1981.

EXPERIENCES

- **Director**, POSTECH Information Research Laboratories, 2010. 03 – present
- **Head**, Dept. of Computer Science and Engineering, 2010. 03 – present
- **Director**, Center for Mobile Embedded Software Technology (ITRC Center), 2005. 10 – present
- **Professor**, Pohang University of Science and Technology, 2004. 3 – present
- **Associate Professor**, Pohang University of Science and Technology, 1998. 3 – 2004. 2.
- **Assistant Professor**, Pohang University of Science and Technology, 1992. 8 – 1998. 2.
- **Visiting Scholar**, University of Michigan, Ann Arbor, 2000. 3 – 2001. 2.
- **Research Associate**, University of Michigan, Ann Arbor, 1991.1 – 1992. 7.
- **System Analyst**, Korea Securities Computer Corporation, 1983. 2 – 1986. 8.

RESEARCH INTERESTS

- **Secure Computing**
- **Dependable Computing**
- **Real-time computing**
- **Parallel and Distributed Computing**
- **Performance Evaluation**

RECENT PUBLICATIONS (Since 2006)

Journal

- Sangho Lee, Hay-Rim Lee, Seungkwang Lee, and Jong Kim, "DRMFS: A file system layer for transparent access semantics of DRM-protected contents," *Journal of Systems and Software*, 2012. (accepted) (SCIE)
- Yuna Kim, Ki-Young Jung, Tae-Hyung Kim, and Jong Kim, "A Distributed Energy-Efficient Clustering Scheme for Deploying IDS in MANETs," *Telecommunication Systems*, 2011. (SCIE)
- Kyong Hoon Kim, Wan Yeon Lee, Jong Kim, and Rajkumar Buyya, "SLA-based Scheduling of Bag-of-Tasks Applications on Power-aware Cluster Systems," *IEICE Trans. Information and Systems*, vol. E93-D(12), pp.3194-3201, December 2010.
- Yuna Kim, Wan Yeon Lee, Kyong Hoon Kim, and Jong Kim, "AdaFF: Adaptive Failure-handling Framework for Composite Web Services," *IEICE Trans. Information and Systems*, vol. E93-D(4), pp. 834-842, April 2010. (SCIE, 0.396) (SCOPUS)
- Sangho Lee, Jong Kim, and Sung Je Hong, "Redistributing time-based rights between consumer devices for content sharing in DRM system," *International Journal of Information Security*, vol. 8(4), pp. 263-273, August 2009. (SCIE, 1.681) (SCOPUS)
- Sangho Lee, Jong Kim, and Sung Je Hong, "Security weakness of Tseng's fault-tolerant conference-key agreement protocol," *Journal of Systems and Software*, vol. 82(7), pp. 1163-1167, July 2009. (SCIE, 1.340) (SCOPUS)
- Jae Keun Park, Wan Yeon Lee, Sung Je Hong, and Jong Kim, "Dynamic Two-tier Cell Structure for Bandwidth Reservation of Handoffs in Cellular Networks," *IEICE Trans. Fundamentals of Electronics, Communications and Computer Sciences*, vol. E91-A(10), pp. 3003-3005, October 2008. (SCIE, 0.287) (SCOPUS)
- Kyong Hoon Kim, Wan Yeon Lee, and Jong Kim, "Energy-Aware Error Correction for QoS-Provisioning Real-Time Communications," *IEICE Trans. Fundamentals of Electronics, Communications and Computer Sciences*, vol. E91-A(7), pp. 1682-1685, July 2008. (SCIE, 0.287) (SCOPUS)
- Heejae Park and Jong Kim, "Copyright Protection for Modifiable Digital Content Based on Distributed Environment," *IEICE Trans. Information and Systems*, vol. E91-D(5), pp. 1390-1397, May 2008. (SCIE, 0.245) (SCOPUS)
- So Young Lee, O-Hoon Kwon, Jong Kim, and Sung Je Hong, "Mitigating the Impact of Liars by Reflecting Peer's Credibility on P2P File Reputation Systems," *LNAI 4461 (AP2PC 2006)*, pp. 111-122, 2008. (SCOPUS)

- Bong-Soo Roh, O-Hoon Kwon, Sung Je Hong, and Jong Kim, "The Exclusion of Malicious Routing Peers in Structured P2P Systems," LNAI 4461 (AP2PC 2006), pp. 45-59, 2008. (SCOPUS)
- Kyong Hoon Kim and Jong Kim, "An Adaptive DVS Checkpointing Scheme for Fixed-Priority Tasks with Reliability Constraints in Dependable Real-Time Embedded Systems," LNCS 4523 (ICISS'07), 560-571, 2007 (CMEST support) (SCOPUS)
- O-Hoon Kwon, So Young Lee, and Jong Kim, "FileTrust : Reputation Management for Reliable Resource Sharing in Structured Peer-to-Peer Networks," IEICE Trans. Communications, vol. E90-B(4), pp. 826-835, April 2007. (SCI, 0.290) (SCOPUS)
- Ki hun Lee, Yuna Kim, Sung Je Hong, and Jong Kim, "PolyI-D: Polymorphic worm detection based on instruction distribution," LNCS 4298 (WISA 2006), pp. 45-59, 2007.
- Deok Jin Kim, Tae Hyung Kim, Jong Kim, and Sung Je Hong, "Return Address Randomization Scheme for Annulling Data-injection Buffer Overflow Attack," LNCS 4318 (Inscrypt 2006), pp. 238-252, 2006. (SCOPUS)
- Heejo Lee, Jong Kim, and Wanyeon Lee, "Resiliency of Network Topologies under Path-Based Attacks," IEICE Trans. Communications, Vol. E89-B(10), pp. 2878-2884, Oct. 2006. (SCOPUS)
- So Young Lee, O-Hoon Kwon, Jong Kim, and Sung Je Hong, "A Trust Management Scheme in Structured P2P Systems", LNAI 4118 (AP2PC 2005), pp. 30-43, 2006.
- Kyong Hoon Kim, Jong Kim, and Sung Je Hong, "Dual-Mode r-Reliable Task Model for Flexible Scheduling in Reliable Real-Time Systems", LNCS 4096 (EUC 2006), pp. 308-317, 2006 (SCOPUS)

Conferences

- Sangho Lee and Jong Kim, "WarningBird: Detecting Suspicious URLs in Twitter Stream," Proc. 19th Network and Distributed System Security Symposium (NDSS), San Diego, California, USA, February 5-8, 2012
- Jonghyuk Song, Sangho Lee, and Jong Kim, "Spam Filtering in Twitter using Sender-Receiver Relationship", RAID 2011, Menlo Park, California, USA, September 20-21, 2011
- Byoungyoung Lee, Jinoh Oh, Hwanjo Yu, and Jong Kim, "Protecting Location Privacy using Location Semantics," Proc. 17th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), San Diego, California, USA, August 21-24, 2011.

- Sangho Lee and Jong Kim, "Detecting Suspicious URLs in Twitter Stream (poster)," 20th USENIX Security Symposium, San Francisco, California, USA, August 8-12, 2011.
- Hay-Rim Lee, Sangho Lee, Jihun Kim, Sung Je Hong, and Jong Kim, "Self-Detection of Packet Misrouting Nodes for MANET with AODV," Proc. 6th International Symposium on Embedded Technology (ISET), Jeju, Korea, May 20-21, 2011.
- Sangho Lee and Jong Kim, "A Batch Rekeying Time Decision Algorithm for IPTV Systems," Proc. 8th IEEE Consumer Communications and Networking Conference (CCNC), pp. 901-905, Las Vegas, Nevada, USA, January 9-12, 2011
- Sangho Lee, Heejin Park, and Jong Kim, "A Secure and Mutual-Profitable DRM Interoperability Scheme," Proc. of the IEEE Symposium on Computers and Communications (ISCC 2010), pp. 75-80, Riccione, Italy, June 22-25, 2010.
- Byoungyoung Lee, Yuna Kim, and Jong Kim, "binOb+: A Framework for Potent and Stealthy Binary Obfuscation," Proc. of the 5th ACM Symposium on Information, Computer and Communications Security (ASIACCS 2010), pp. 271-281, Beijing, China, April 13-16, 2010.
- Yuna Kim, Jong Kim, Junghei You, and Heejae Park, "Exclusion of Forged Files from Multi-Source Downloadable P2P Systems," Proc. of the IEEE 23rd International Conference on Advanced Information Networking and Applications (AINA'09), pp. 608-615, Bradford, UK, May 26-29, 2009.
- Jong-seok Lee, Tae-Hyung Kim, and Jong Kim, "Energy-efficient Run-time Detection of Malware-infected Executables and Dynamic Libraries on Mobile Devices," Proc. of the 1st International Workshop on Software Technologies for Future Dependable Distributed Systems (STFSSD'09), pp. 143-149, Tokyo, Japan, Mar. 17-18, 2009.
- Yuna Kim, Jae Keun Park, Hong Jun Choi, Sangho Lee, Heejin Park, Jong Kim, Zino Lee, and Kwangil Ko, "Reducing IPTV Channel Zapping Time Based on Viewer's Surfing Behavior and Preference," Proc. of 2008 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting (BMSB'08), pp.1-6, Las Vegas, USA, Mar. 31-Apr. 2, 2008. (SCOPUS)
- Tae-Hyung Kim, Young-Sik Choi, Jong Kim, and Sung Je Hong, "Annulling SYN Flooding Attacks with WhiteList," Proc. of the IEEE 22nd International Conference on Advanced Information Networking and Applications Workshops (WAINA'08), pp. 371-376, Okinawa, Japan, Mar. 25-28, 2008. (SCOPUS)
- Yuna Kim and Jong Kim, "Allowing User-Specified Failure Handling in Web Services Composition," Proc. of the ACM Second International Conference on Ubiquitous

Information Management and Communication (ICUIMC'08), pp. 452-458, Suwon, Korea, Jan. 31-Feb. 1, 2008.

- Hong Jun Choi, Sung Je Hong, and Jong Kim, "Secure and Efficient Offline RFID Authentication for Anti-counterfeiting," Proc. of the 2nd International Conference on Ubiquitous Information Technologies & Applications (ICUT 2nd), Bali, Indonesia, Dec. 20-22, 2007. (acceptance rate: 118/394)
- Yuna Kim, Hun Seok Choi, and Jong Kim, "SpoofSifter: Scheme to Prevent Phishing by Detecting User's Posting to Spoofed Website, " Proceedings of the 2nd Joint Workshop on Information Security (JWIS 2007), Tokyo, Japan, August 6-7, 2007. (No ack) **Best paper** (acceptance rate: 40/41)
- Tae Hyung Kim, Kyungtae Kim, Jong Kim, and Sung Je Hong, "Profile-based Web Application Security System with Positive Model Selection, " Proceedings of the 2nd Joint Workshop on Information Security (JWIS 2007), Tokyo, Japan, August 6-7, 2007. (acceptance rate: 40/41)
- Kyong Hoon Kim and Jong Kim, "An Adaptive DVS Checkpointing Scheme for Fixed-Priority Tasks with Reliability Constraints in Dependable Real-Time Embedded Systems," Proc. of The 2007 International Conference on Embedded Software and System (ICES-07), Daegu, Korea, May 14-16, 2007. - LNCS (SCOPUS)
- Kyong Hoon Kim, Rajkumar Buyya, and Jong Kim, "Power Aware Scheduling of Bag-of-Tasks Applications with Deadline Constraints on DVS-enabled Clusters," Proceedings of the 7th IEEE International Symposium on Cluster Computing and the Grid (CCGrid 2007), Rio de Janeiro, Brazil, May 14-17, pp. 541-548, 2007.
- IlShik Shin, Yuna Kim, Sung Je Hong, and Jong Kim, "Env-RBAC: Dynamic Access Control for Ubiquitous Environment," Pre-proceedings of 7th Workshop on Information Security Applications (WISA'06), Jeju Island, August 28-30, 2006 (short abstract). (rate: 57/101); 59/237)
- Deok Jin Kim, Tae Hyung Kim, Jong Kim and Sung Je Hong, "Return Address Randomization Scheme for Annulling Data-injection Buffer Overflow Attack," Proceedings of 2th SKLOIS Conference on Information Security and Cryptology, Beijing, China, Nov. 2006. (Accepted)
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- Kyong Hoon Kim and Jong Kim, "An Energy-Efficient FEC Scheme for Weakly Hard Real-Time Communications in Wireless Networks," Proceedings of 12th IEEE

International Conference on Embedded and Real-Time Computing Systems and Applications, Sydney, Australia, August 2006.

- Kyong Hoon Kim, Jong Kim, and Sung Je Hong, "Dual-mode r-reliable Task Model for Flexible Scheduling in Reliable Real-time Systems," Proceedings of the 2006 IFIP International Conference on Embedded and Ubiquitous Computing (EUC '06), Seoul, Korea, August 1-4, 2006. - LNCS, vol. 4096, pp. 308-317, 2006.
- Kyong Hoon Kim, Rajkumar Buyya, and Jong Kim, "Imprecise Computation Grid Application Model for Flexible Market-based Resource Allocation," Proceedings of the 6th IEEE International Symposium on Cluster Computing and the Grid (CCGrid 2006), Singapore, May 16-19, 2006.
- So Young Lee, O-Hoon Kwon, Jong Kim and Sung Je Hong, "Mitigating the Impact of Liars by Reflecting Peer's Credibility on P2P File Reputation Systems", 5th International Workshop on Agents and Peer-to-Peer Computing (AP2PC), May 2006 - LNCS
- Bong-Soo Roh, O-Hoon Kwon, Sung Je Hong and Jong Kim, "The Exclusion of Malicious Routing Peers in Structured P2P Systems", 5th International Workshop on Agents and Peer-to-Peer Computing (AP2PC), May 2006 - LNCS