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Workshop and Miscellaneous Publications

"Preventing malicious monitoring through SMS permission segmentation in Android",
Eunchan Kim, Jaebaek Seo, Byunggil Joe, Insik Shin,
 Korea Computer Congress, Jeju, Korea, June 2015.

"GPGPU Parallelization Techniques for Redundancy Elimination Algorithm",
Byunggil Joe, DaeLyong Jeong, Jlyeon Lee, insik Shin,
 Korean Institute of Information Scientists and Engineers, Korea, December 2014.

"supporting single-gpu abstraction through transparent multi-gpu execution for real-time guarantees",
wookhyun han, hoon sung chwa, hwidong baee, hyosu kim and insik shin,
 proceedings of the 7rd workshop on compositional theory and technology for real-time embedded systems (crts '14) in conjunction with
 ieee rtss '14, rome, italy, december 2014.

"Optimal Priority Assignment for Parallel Tasks under Fixed Priority Scheduling in Real-time Systems",
Jlyeon Lee, Hoon Sung Chwa and Insik Shin,
 Korean Institute of Information Scientists and Engineers, Korea, November 2013.

"Compositional Mixed-Criticality Scheduling",
Arvind Easwaran and Insik Shin,
 Proceedings of the 7rd Workshop on Compositional Theory and Technology for Real-Time Embedded Systems (CRTS '14) in
 conjunction with IEEE RTSS '14, Rome, Italy, December 2014.

"Implementation of Compositional Scheduling Framework on Virtualization",
Jungwoo Yang, Hyungseok Kim, Sangwon Park, Changki Hong, Insik Shin,
 Proceedings of the 3rd Workshop on Compositional Theory and Technology for Real-Time Embedded Systems (CRTS '10) in
 conjunction with IEEE RTSS '10, San Diego, CA, USA, November 2010.

"Multiprocessor Real-Time Scheduling Considering Concurrency and Urgency",
Jinkyu Lee, Arvind Easwaran, insik Shin, insup Lee,
 ACM SIGBED Review, Vol. 7, No. 1, January 2010 (Invited to the Special Issue of 2009 IEEE RTSS WIP Session; Selected among the
 top 5 (out of 24))

"On Interrupt Scheduling based on Process Priority for Predictable Real-Time Behavior",
Minsub Lee, Juyoung Lee, Andri Shyshkaiov, Jaebaek Seo, Intaek Hong, Insik Shin,
 ACM SIGBED Review, Vol. 7, No. 1, January 2010 (Invited to the Special Issue of 2009 IEEE RTSS WIP Session; Selected among the
 top 5 (out of 24))

"On Optimal Multiprocessor Scheduling Considering Concurrency and Urgency",
Jinkyu Lee, Arvind Easwaran, insik Shin and insup Lee,
 Proceedings of Work-In-Progress Session of the 30th IEEE Real-Time Systems Symposium (RTSS '09 WIP), Washington D.C., USA,
 December 2009.

"Towards Timing Decomposition for Scalable Robot Control: Collision Detection Analysis",
Hoon Sung Chwa, Jinkyu Lee and Insik Shin,
 Proceedings of Work-In-Progress Session of the 30th IEEE Real-Time Systems Symposium (RTSS '09 WIP), Washington D.C., USA,
 December 2009.

"OptTuner: An Automatic Distributed Performance Optimization Service and a Server Farm Application",
Jin Her, Praveen Jayachandran, insik Shin, Dong Wang, Tarek Abdelzaher,
 Proceedings of Fourth International Workshop on Feedback Control Implementation and Design in Computing Systems and Networks
 (FeBID '09), San Francisco, USA, April, 2009. (Invited)

"Towards Hierarchical Scheduling on Top of VxWorks",
Moris Behnam, Thomas Nolte, insik Shin, Mikael Asberg, Reinder Bril,
 Proceedings of the Workshop on Operating Systems Platforms for Embedded Real-Time applications (OSPERT '08), Prague, Czech

Book Chapters

"Compositional Real-time Schedulability Analysis", *Insik Shin, Insup Lee*,
In Handbook of Real-time and Embedded Systems, edited by I. Lee, J. Y-T. Leung, and S. Son, Chapman & Hall/CRC, 2007.

"Fair Real-time Traffic Scheduling over a Wireless LAN", *Insik Shin, Sanjeev Khanna, Insup Lee*,
In Resource Management in Wireless Networking, M. Cardei, I. Cardei and D.-Z. Du (Eds.), Springer, Vol. 18, 2005.

Technical Reports

"Compositional Framework for Real-Time Embedded Systems", *Insik Shin*, Ph.D. thesis, University of Pennsylvania, 2006.
Morris and Dorothy Rubinoff Award (for the best doctoral dissertation in computer technology at Penn).

"Java Bytecode Modification and Applet Security", *Insik Shin, John C. Mitchell*,
Technical Report, Computer Science Department, Stanford University, 1998.

Ph.D. Thesis @ KAIST / CS

Lee, Jinkyu, "Supporting Parallelism for Real-Time Multiprocessor Scheduling", 2011.
Outstanding Ph.D. Thesis Award in Computer Science.

M.S. Theses @ KAIST / CS

Hong, Changki, "Adaptive Motion Planning Over Environmental Uncertainties", 2010.

Lee, Minsup, "Process and Interrupt Cooperative Scheduling for Disks", 2011.
Outstanding Master's Thesis Award in Computer Science.

Chwa, Hoon Sung, "Adaptive Trajectory Planning for Scalable Multiple Robot Control", 2011

Kim, Hyosu, "Application Characteristics-aware Disk and Network I/O Management on Android Platform", 2012.
Outstanding Master's Thesis Award in Computer Science.

Lee, Kiiho, "Study of offloading decision-making over dynamically-changing mobile environments", 2012.

Han, Wookhyun, "CPU/GPU Load Balancing OpenCL Framework", 2013.

Seo, Jaebaek, "Game Sharing for Scalable Cloud Gaming System", 2013.

Bui, Hoang Duc, "GreenBag: Energy-efficient Bandwidth Aggregation for Real-time Streaming in Heterogeneous Mobile Wireless Networks", 2013.
Outstanding Master's Thesis Award in Computer Science.

Lee, Jiyeon, "Thread-level Priority Assignment in Global Multiprocessor Scheduling for Parallel Tasks", 2014.

Bae, Hwidong, "Supporting context-driven privacy handling on mobile environments", 2014.

Oh, Sangeun, "Adaptive Routing and Priority Ordering for Software-Defined Real-Time Networking", 2014.

