CPSNA 2012



2nd Workshop on Cyber-Physical Systems, Networks and Applications

in conjunction with RTCSA 2012

August 19, 2012, Seoul, Korea

http://cps.kaist.ac.kr/cpsna2012/

Cyber-physical systems represent a next generation of embedded systems featuring a tight integration of computational and physical elements. Emerging applications of cyber-physical systems include transportation, healthcare, energy, manufacturing, entertainment, consumer electronics, environmental monitoring, and aerospace, all of which will be essential pieces of our social infrastructure. A grander vision of cyber-physical systems, however, faces a core challenge of multidisciplinary research collaborations, as their relevant technologies appear in diverse areas of science and engineering. The objective of this workshop is to explore innovative, exciting, and fresh ideas for cyber-physical systems. Contributions should emphasize on the design, implementation, and evaluation of systems, networks, and applications. CPSNA 2012 will serve as a forum to discuss new ideas for such core challenges of cyber-physical systems.

Topics include but are not restricted to:

- Embedded and real-time systems
- Sensor networks
- Timing analysis and verification methods and tools
- Dependable computing
- Ubiquitous and pervasive computing

- Cloud and distributed computing - Data-intensive computing
- Multicore and GPU programming
- Architecture, compiler, and OS support
- Experimental prototype systems
- Project report on multidisciplinary research collaborations
- Emerging applications of cyber-physical systems: autonomous vehicles, healthcare robots, smart buildings, smart grids, medical devices, virtual reality interfaces, infrastructure monitoring systems, etc.

Submission Guidelines

CPSNA 2012 invites submissions of full and short papers. Full papers must present complete work, while short papers may include work in progress. Submitted papers must adhere to page limits of 6 pages for full papers and 4 pages for short papers.

Program Co-Chairs

Insik Shin, KAIST, Korea Songhwai Oh, SNU, Korea

Important Dates

Deadline: May 10, 2012 Notification: June 19, 2012 Final versions: July 19, 2012 Workshop: August 19, 2012

Steering Committee

Tei-Wei Kuo, National Taiwan University, Taiwan Tatsuo Nakajima, Waseda University, Japan Joseph K. Ng, Hong Kong Baptist University, China Seongsoo Hong, Seoul National University, Korea Sang H. Son, University of Virginia, USA