International Conference on Distributed Computing in Sensor Systems (IEEE DCOSS)

May 16 - 18, 2012 • Hangzhou, China

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Call for Papers

Distributed sensor systems have become a highly active research area due to their potential for providing diverse new capabilities. Such systems allow intelligent dense monitoring of physical environments. The focus of this conference is on distributed computing issues in largescale networked sensor systems (including algorithms, applications, systematic design techniques and tools, and in-network signal and information processing).

Authors are invited to submit original unpublished manuscripts that demonstrate current research on computational aspects of distributed sensor systems. Topics of interest include but are not limited to:

- Machine-to-Machine
- Sensors in Smart Grid Systems
- Green Networks and Systems
- Computation and programming models
- Energy models, minimization, awareness
- Distributed collaborative information processing
- Detection and tracking
- Theoretical performance analysis: complexity, correctness, scalability
- Abstractions for modular design
- Fault tolerance and security
- Languages, operating systems
- Task allocation, reprogramming and reconfiguration
- Dynamic resource management
- Scalable, heterogeneous architectures (node and system-level)
- Middleware interfaces, communication and processing primitives
- Design, simulation and optimization tools for deployment and operation
- Design automation and application synthesis techniques
- Closed-loop control for sensing and actuation
- Case studies: lessons from real world deployments
- Network coding and compression

Important Dates

All submissions: February 1, 2012 (11:59 pm EST)
Notification: March 20, 2012
Camera Ready: April 4, 2012 (11:59 EST)
Paper submission process via EDAS

See **http://www.dcoss.org/dcoss12** for more information on the conference. Sponsored by IEEE Computer Society Technical Committee on Parallel Processing (TCPP) and IEEE Computer Society Technical Committee on Distributed Processing (TCDP). Held in co-operation with ACM SIGARCH, ACM SIGBED, European Association for Theoretical Computer Science (EATCS), IFIP WG 10.3