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DCOSS '10

June 21 - 23, 2010

Santa Barbara, California



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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 large-scale 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Authors are invited to submit original unpublished manuscripts that demonstrate current research on computational aspects of distributed sensor systems.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:

- 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

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11:59PM EST Feb 2, 2010

Notification:

March 26, 2010

Camera Ready:

April 7, 2010

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