



Website: <http://www.dcross.org/>



Call for Papers

The 4th International Conference on Distributed Computing in Sensor Systems

June 11 - 14, 2008, Santorini Island, Greece

New in 2008:

- **Demo Session**
- **Work-in-Progress Session**
- **Special Issue on Best of DCoSS**
- **Student Competition**

Important Dates:

Papers Due: January 28, 2008
Notification: March 20, 2008
Camera Ready: April 3, 2008
Conference: June 11 - 14, 2008

Organization Committee:

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Complete list of Technical Program Committee and Steering Committee can be found at <http://www.dcross.org/>

Overview:

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, which makes them immensely useful for data collection and analysis. The focus of the conference is on distributed computing issues in large-scale networked sensor systems (including algorithms, applications, and systematic design techniques and tools), but networking-related contributions that support high level abstractions are also welcome. Authors are invited to submit original unpublished manuscripts that demonstrate current research on computational aspects of distributed sensor systems.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 algorithms for collaborative information processing
- Theoretical performance analysis: complexity, correctness, scalability
- Abstractions for modular design
- 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
- Case studies: lessons from real world deployments

Detailed submission guidelines will be available at <http://www.dcross.org/> in due time. Best paper awards will be given in each of the three conference technical tracks: algorithms, applications, and systems. DCOSS '08 Proceedings will appear through the Lecture Notes in Computer Science (LNCS) Series of Springer Verlag.

DCOSS '08 will co-locate with several related workshops on special topics, including the Workshop on Localized Algorithms and Protocols for Wireless Sensor Networks (LOCALGOS), the Workshop on Information Theory for Sensor Networks (WITS), the Workshop on Sensor Network Engineering (IWSNE), the Workshop on Energy in Wireless Sensor Networks (WEWSN), the Workshop on Wireless Sensor Network Deployments (WiDeploy).

Sponsored by:

IEEE Computer Society Technical Committee on Parallel Processing (TCPP)
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) and IFIP WG 10.3.