Call for Papers

IPSN’08: The 7th International Conference on Information Processing in Sensor Networks
April 22-24, 2008, St. Louis, Missouri, USA
Co-located with IEEE Real Time and Embedded Technology and Applications Symposium (RTAS ’08) and
International Conference on Hybrid Systems: Computation and Control (HSCC ’08)

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The International Conference on Information Processing in Sensor Networks (IPSN) is a leading,
single-track, annual forum that brings together researchers from academia, industry, and
government to present and discuss recent advances in sensor network research and applications.
The conference covers both theoretical and experimental research, as it pertains to sensor
networks, in a broad range of disciplines including signal and image processing, information and
coding theory, databases and information management, distributed algorithms, networks and
protocols, wireless communications, machine learning, and embedded systems design.

The conference features two interleaved tracks, the Information Processing (IP) track, and the
Sensor Platforms, Tools and Design Methods (SPOTS) track, with two separate program
committees to evaluate their submissions. Authors should carefully review the intended foci of
these two tracks to decide which track is better suited for their work, and they are encouraged to
contact the cognizant program chairs with questions or clarifications.

The Information Processing (IP) track will focus on algorithms, systems, and theory pertaining
to information processing using networks of embedded sensors. Topics covered in this track include,
but are not limited to:

- Applications of sensor networks
- Coding, compression and information theory
- Data processing, storage and management
- Detection, classification, estimation, tracking
- Distributed algorithms and reasoning
- Distributed and collaborative signal processing
- Fault tolerance
- Location and time services
- Operating systems
- Network health monitoring
- Network protocols for sensor networks
- Programming models and languages
- Real-time scheduling
- Security
- Sensor tasking, control, and actuation

The Sensor Platforms, Tools, and Design Methods (SPOTS) track will focus on platforms and
tools designed for networked embedded sensors. Submission should refer to specific hardware,
software, and system design and implementation, focusing on new architectures, modeling,
evaluation, design methods, implementations, tools, or deployment experiences. Results focused on
the analysis and processing aspects of data collected from deployments should be submitted to the
IP track. Topics covered in the SPOTS track include, but are not limited to:

- Case studies that highlight challenges in and advantages of platforms, designs, operations, and tools
- Embedded software for sensor networks
- Design exploration and optimization tools
- Sensor network components and device platforms
- System design and implementation
- System modeling, simulation, measurements, and analysis

Submission Guidelines

All papers must be submitted electronically, in Portable Document Format (PDF). Instructions for
submission will be available at the IPSN’08 website: http://ipsn.acm.org/2008/

Submissions must meet the following criteria:
- A paper must be original material that has neither been previously published nor is currently
  under review by another conference or journal.
- PLEASE NOTE: Submitted papers should be no longer than 12 pages at 10pt font in IEEE
  conference format. Please see Paper Submission information at http://ipsn.acm.org

Each paper will be reviewed by the TPC of the track to which it is submitted, and all accepted
papers will appear in the conference proceedings. Following the tradition of previous IPSN
conferences, an accepted paper will be allocated either an oral presentation slot or a poster
presentation outlet together with a brief oral advertisement slot. The choice of the presentation

http://ipsn.acm.org
style is determined entirely by the nature of results, and not by their quality.