The Sensor Platforms, Tools, and Design Methods (SPOTS) track focuses on new hardware and software architectures, modeling, evaluation, deployment experiences, design methods, implementations, and tools for networking embedded sensor systems. Submissions are expected to refer to specific hardware, software, and implementations. Results focused on the analysis and processing aspects of data collected from deployments should be submitted to the IP track, while details on the hardware and software platforms and tools used in the deployment should be submitted to SPOTS. Topics covered in this track include, but are not limited to:

- Applications and deployment experiences
- Data processing, storage and management
- Detection, classification, and tracking
- Distributed algorithms and reasoning
- Distributed and collaborative signal processing
- Fault tolerance and identification
- Security
- Sensor tasking, control, and actuation
- Network health monitoring and management
- Network protocols
- Simulation
- Programming models and languages
- Operating systems and runtime environments

The conference features two interleaved tracks, the Information Processing (IP) track, and the Sensor Platforms, Tools and Design Methods (SPOTS) track. The two tracks have 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 program chairs with questions or clarifications.

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

- Operating systems and runtime environments
- Security
- Sensor tasking, control, and actuation
- Network health monitoring and management
- Network protocols
- Simulation
- Programming models and languages
- Operating systems and runtime environments

The Sensor Platforms, Tools, and Design Methods (SPOTS) track focuses on new hardware and software architectures, modeling, evaluation, deployment experiences, design methods, implementations, and tools for networking embedded sensor systems. Submissions are expected to refer to specific hardware, software, and implementations. Results focused on the analysis and processing aspects of data collected from deployments should be submitted to the IP track, while details on the hardware and software platforms and tools used in the deployment should be submitted to SPOTS. Topics covered in the SPOTS track include, but are not limited to:

- Novel sensor network components, device platforms and architectures
- Embedded software for sensor networks
- Design tools and methodologies for sensor networks
- System modeling, simulation, measurements, and analysis
- Case studies that describe experiences, highlight challenges, and study compare the performance of platforms and tools

SUBMISSION GUIDELINES
All papers must be submitted electronically in PDF. Detailed submission instructions are on the conference website, http://ipsn.acm.org/. 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.
- A paper should be no longer than 12 pages in ACM two-column conference format.

IPSNN is part of CPS Week 2011, which collocates the top five conferences in the research and development of cyber-physical systems: IPSN, RTAS, HSCC, ICCPS and LCTES.

IMPORTANT DATES
Abstract deadline: Friday, October 22, 2010
Full papers due: Friday, October 29, 2010
Author notification: Friday, January 21, 2011