

**Call For Papers**  
**WIRELESS INTERNET CONFERENCE (WICON) 2005 WORKSHOP**  
**(Budapest, HUNGARY)**  
<http://www.wicon.org/>

On

**Information Fusion and Dissemination in Wireless Sensor Networks**  
<http://www.sensorfusion.org/>

**Workshop Chair: Dr. Pratik K. Biswas**  
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The convergence of internet, wireless communications, and information processing technologies with techniques for miniaturization has opened up new vistas of research for sensor networks. Emerging technologies for sensing and pervasive computing have placed sensor networks at the threshold of a period of major growth. It has extended information fusion and dissemination in sensor networks from data aggregation, association and monitoring of interactions among hardware and software entities in ubiquitous computing environments to intelligent information processing for the next generation wireless internet. For the emerging hybrid sensor networks, information fusion can help in the seamless integration of smart sensors and actuators, devices and capabilities, software and hardware agents, sensor network applications and sensor nodes, distributed and collaborative algorithms, different communication technologies, different networking architectures, etc., all over wireless or wire-line backbones. The **Wireless Internet Conference (WICON 2005)** has planned a *special workshop* devoted to information fusion and dissemination in the broader context of emerging sensor networks. The aim of this workshop is to provide a focal point for recent advances in this foundational area of information fusion and dissemination for sensor networks across different paradigms, disciplines and technologies. Submitted papers should report new contributions underpinning fusion of data and knowledge in distributed sensor networks from various perspectives. Papers will be fully refereed and accepted papers will be published in the conference proceedings. Selected papers from this workshop will also be recommended for possible publication in **Information Fusion, an Elsevier Publication**. Topics appropriate for this workshop include (but are not necessarily restricted to):

- *Programmable architectures and infrastructure for sensor networks*
- *Scalable, adaptive, self-organizing and self-healing architectures for sensor networks*
- *Multi-sensor, multi-source information networking architectures for sensor networks*
- *Intelligent, autonomous, seamless, pervasive, multi-sensor information processing over wireless or wire-line internet backbone for distributed sensor networks*
- *Information fusion and dissemination in mesh networks*
- *Data collection, compression/decompression and mining strategies in sensor networks*
- *Distributed database processing in sensor networks*
- *In-network processing, aggregation and data association in sensor networks*
- *Transport, Routing, Physical and Link layer protocol development using information fusion*
- *Cross layer protocol design and development using information fusion*
- *Energy and mobility management algorithms for sensor networks*
- *Node localization in sensor networks*
- *Information fusion for resource allocation and Quality of Service in sensor networks*
- *Integration of fusion and learning in sensor networks*
- *Integration of software and hardware agents for sensor network applications*
- *Service discovery, creation and provisioning for sensor networks through wireless or wire-line internet*
- *Mechanisms for authenticated, secure communication and data fusion in sensor networks*
- *Integrated test-beds, experiments, algorithms and measurements*
- *Real-world sensor network applications addressing fusion of data and knowledge*

Authors should prepare the manuscript as per the guidelines for authors described in the frame under "Submission" at the conference website (<http://www.wicon.org>). Manuscript submission should be done electronically through the conference website.

## **Deadline for Submission: February 20, 2005**

### **Workshop Committees**

#### **General Chair:**

Pratik Biswas (Penn State University /Applied Research Laboratory, USA)

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Pratik Biswas (Penn State University/Applied Research Laboratory, USA)  
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