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Recently, there is a growing interest in the design, development and deployment of sensor systems for applications of high-level inference, which leads to an increasing demand on interconnecting wireless sensor networks with other emerging technologies, such as RFID technology, multimedia based surveillance system, biomedical technology, mobile agent based networks, P2P technology and business process and semantic technology, etc. With sensor technology being incorporated into these technologies, demands from more and more autonomous and intelligent applications can be met.

This workshop is intended to provide a forum for presenting, exchanging and discussing the most recent advances in different aspects of integrating wireless sensor networks with emerging technologies. In particular, this workshop will bring together leading researchers, industry professionals, and research students to study the applications, architectures, protocols, models, evaluation methods, and experimental studies of the advanced sensor integration technology.

The workshop solicits original technical papers that were not previously published and are not currently under review for publication elsewhere. Topics of interest include (but are not limited to):

Sensor Integration with RFID technology:

- * Novel architecture for integrating RFID and wireless sensor networks
- * RFID based wireless sensor networks
- * Ubiquitous RFID and sensor networks
- * Intelligent applications for RFID and Wireless Sensor Networks

Sensor Integration with Multimedia based Surveillance System:

- * Multi-camera system algorithms and applications
- * Multimedia aggregation and fusion in video sensor networks
- * Testbed and experimental studies for video sensor networking
- * Real-time and reliable video transmission over WSNs
- * QoS provisioning for video transmission in WSNs

Sensor Integration with Biomedical Technology:

- * Wireless sensor networks in E-healthcare
- * Health Care and Medical Applications for wireless body area sensor networks
- * Body sensor networks

Sensor Integration with Mobile Agent Technology:

- * Middleware design for mobile agent based wireless sensor networks
- * Novel itinerary plan for mobile agent in wireless sensor networks
- * Agent-based architectures for WSNs
- * Agents design issues dealing with reliability and fault tolerance in WSNs
- * Mobile agent based intelligent sensory data fusion

Sensor Integration with P2P Technology:

- * P2P based diverse sensor networks integration
- * P2P based sensor networks resource discovery
- * P2P based worldwide sensor networks sharing

Sensor Integration with Business Process:

- * Novel middleware design for sensor networks assisted business process
- * Integrating sensor networks with business process
- * Sensor networks based context aware business process management

Sensor Integration with Semantic Technology:

- * Semantic descriptions of sensors and sensor data
- * Semantic data integration of heterogeneous sensor network data streams
- * Semantic Sensor Web applications, architectures, middleware, and languages
- * Sharing, annotation, and (distributed) management of sensor data

Important Dates

Submission due: May 20th, 2009	Acceptance notification: June 30th, 2009
Camera-ready due: July 15th, 2009	Conference date: September 23th~25st, 2009

ASIT 2009 accepted paper will be published in the ADHOCNETS 2009 proceedings. Authors of selected papers from ASIT 2009 will be invited to submit expanded versions of their papers for fast-tracked review and possible publication in the International Journal of Sensor Networks (IJSNET) special issue on "Recent Advance on Sensor Integration".

Paper Submission:

Please prepare your paper according to the submission guidelines:

<http://www.ece.ubc.ca/~minchen/asit2009sub.htm>

For further information regarding paper submission, please contact:

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