

# MobiSensor'2010

## 1<sup>st</sup> International Workshop on Mobility in Wireless Sensor Networks

In conjunction with the [6<sup>th</sup> IEEE International Conference on Distributed Computing in Sensor Systems \(DCOSS '10\)](#)

June 23, 2010 --- Santa Barbara, California, USA

### Important Dates:

Paper Submissions: April 23, 2010

Notification: May 7, 2010

Final Version: May 21, 2010

### Program Co-Chairs:

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### Paper submission instructions:

This workshop will only accept for review original papers that have not been previously published and are not currently under review elsewhere. Papers should be formatted based on the [IEEE Transactions journals and conferences style](#); maximum allowed camera-ready paper length is six (6) pages. Submissions must be in Adobe PDF format, including text, figures and references and sent through email to the Program Co-Chairs (see above). All accepted papers must be presented by a registered author.

### Proceedings – Journal Special Issue:

Besides a hardcopy workshop proceedings volume, workshop papers will be included in the IEEE Digital Library.

Extended versions of selected Workshop papers will be invited to be considered for publication in a Special Issue of the **Computer Journal** (Oxford University Press, SCI-indexed, Impact factor: 1.000): <http://comjnl.oxfordjournals.org/>.

### Technical Program Committee:

*Kemal Akkaya, Southern Illinois University Carbondale, USA*

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Wireless Sensor Networks (WSNs) offer unprecedented capabilities for integrating sensing with computing and communication as well as for distributed sensing, coordination and control. While WSNs have been a subject of intensive research for about a decade, most research activities to date focused on sensor nodes typically deployed in static, pre-determined locations with sensor readings taken at regular intervals and multi-hopped to a static sink for subsequent storage and analysis. The next evolutionary step for sensor networks is to handle mobility in all its forms. That is, mobility of sinks, mobility of sensors and actuators as well as mobility of code (i.e. applications). The mobility extension represents a more recent research subject in sensor networking; mobility opens up a whole new level of research opportunities and challenges in WSNs, and significantly expands the types of applications for which WSNs can be used. This workshop aims to highlight the benefits and challenges from such a step and outline the state of the art in this particularly promising research area.

Topics of interest include (but are not limited to):

- Sink mobility in Wireless Sensor Networks
- Actuator networks
- Mobile sensor-actuator networks
- Code mobility in Wireless Sensor Networks
- Mobile agent-based data aggregation in Wireless Sensor Networks
- Mobility issues in underwater Wireless Sensor Networks
- Mobility-assisted communication in Wireless Sensor Networks
- Mobility management in Wireless Sensor Networks
- Connectivity maintenance in Wireless Sensor Networks with mobile elements
- Mobility for maximizing network lifetime in Wireless Sensor Networks
- Mobility models for sinks and actuators in Wireless Sensor Networks
- Routing protocols for handling mobility
- Distributed algorithms and reasoning in Wireless Sensor Networks with mobile elements
- Data fusion techniques in Wireless Sensor Networks with mobile elements
- Mobile GeoSensor Networks
- Simulation of Wireless Sensor Networks with mobile elements
- Applications and deployment experiences