2013 Call for Papers

Workshop on Wireless Intelligent Sensor Networks (WISeNet) June 5, 2013 Duke University, Durham, NC

The Call for Papers for the 2013 Workshop on Wireless Intelligent Sensor Networks (WISeNet) is now open.

WISeNet Workshop Description

Recent advancements in wireless sensor technologies and autonomous vehicles are transforming many areas of science and engineering, spanning from ecology and geosciences to robotics and artificial intelligence. Although sensor technologies vary greatly, from embedded sensor systems on unmanned vehicles to tiny "smart dust" sensors, a unifying paradigm that has recently emerged in the literature is to treat sensor networks as a system of dynamic information-gathering agents. As a result, environmental modeling and prediction tools that utilize sensors to obtain in-situ measurements over time can also be used to help manage and control the sensors to improve the quality of the sensor measurements. The WISeNet Workshop brings together scientists and engineers in the fields of sensor networks, environmental modeling and prediction, and computational intelligence, to ultimately improve our understanding of environmental and ecological processes, in particular climate change and pollution, and to achieve a more effective use of unmanned vehicles and remote sensing.

Topics of Interest

- 1) Information-Driven Environmental Sensing and Prediction
 - a. Sensor management
 - b. Ecosystem and eco-hydrological dynamic modeling and prediction
 - c. Climate-change prediction and mitigation tools
 - d. Sensor data processing, fusion, and simulation
- 2) Guidance and Control of Mobile Sensor Networks
 - a. Unmanned vehicles
 - b. Active sensing
 - c. Signal processing
 - d. Intelligent control and coordination of mobile networks
- 3) Biologically-Inspired Intelligent Sensor Systems
 - a. Information theory
 - b. Adaptation and learning
 - c. Sensorimotor modeling and control

Organizing Committee

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How to Submit

All abstracts must be submitted electronically at http://wisenet.pratt.duke.edu/workshops Abstracts should be no more than 200 words and should adequately describe the topic.

Paper and Presentation Options

- **Option 1: Paper and Presentation** consists of a written paper and presentation at the workshop.
- Option 2: Presentation Only

Important Deadlines

- Abstract submission deadline: March 15, 2013
- Abstract acceptance notification: April 8, 2013
- Registration deadline and final manuscripts due: May 1, 2013

For more information visit: http://wisenet.pratt.duke.edu/workshops