The marriage of sensor and network technologies provides many exciting applications of sensor networks. With their capabilities for monitoring and control, networked sensors are expected to be widely deployed. Theoretical and algorithmic approaches that address key issues in sensor networks have been playing a central role in flourishing these networks.

The goal of the special issue is to publish the most recent results in the development of theoretical and algorithmic aspects of sensor networks. Researchers and practitioners working in this area are expected to take this opportunity to discuss and express their views on the current trends, challenges, and state of the art solutions addressing various issues in sensor networks. Topics to be covered in this special issue include but are not limited to:

- Algorithmic methods and tools
- Approximation algorithm design
- Localization and tracking
- Resource allocation
- Quality of service
- Topology control and coverage
- Energy efficient routing protocols
- Security and privacy
- Distributed and localized solutions
- Stochastic algorithms
- Information processing
- Scalability issues
- Fault-tolerant issues

**Submission Guidelines:**

Manuscripts should be limited to 20 pages. Please submit full papers, not previously published or submitted elsewhere for publication, as an e-mail attachment in PDF format to Dr. Xiuzhen Cheng at cheng@gwu.edu. Your submission should include a maximum of 200-word abstract and a title page containing the corresponding author’s contact information. All submitted papers will be refereed in accordance with the usual criteria of IJSNet.

**Important Dates:**

Manuscript due: January 31, 2006; Notification: April 30, 2006; Final manuscript due: May 31, 2006; Publication date: 4th Quarter of 2006.

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