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Telecommunication Systems
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Special Issue on "Wireless Sensor Networks"

Recent advances in digital electronics, embedded systems, and wireless communications have motivated a lot of research in the direction of distributed wireless sensor networks. Such networks may have a wide range of applications, including security and surveillance, control, actuation and maintenance of complex systems, and fine-grain monitoring of indoor and outdoor environments. Sensor networks differ from conventional network systems in many aspects. They usually involve a large number of spatially distributed, energy-constrained, self-configuring and self-aware nodes. The wireless sensor networks are bringing a lot of new challenges and design considerations, which go much beyond conventional network systems. Topics include, but not limited to:

- ☐ sensor network communication architectures
- ☐ self-configuring, self-healing schemes in sensor networks
- ☐ energy-saving and topology control
- ☐ mobility-tolerant communication protocols
- ☐ energy-efficient media access, error control, and traffic management
- ☐ collaborative information processing of sensor nodes
- ☐ transportation protocols
- ☐ data dissemination, data fusion, and information processing
- ☐ robust distributed algorithms for collaborative processing
- ☐ modeling, performance evaluation, and simulation tools
- ☐ distributed resource management
- ☐ systems, platforms, and tools
- ☐ target tracking and location-based services
- ☐ localization services
- ☐ time synchronization
- ☐ data-centric routing, attribute-based addressing, and location management
- ☐ collaboration and group management of sensor nodes
- ☐ distributed networked sensing and control
- ☐ embedded architectures and tools
- ☐ programming models and languages
- ☐ query processing and optimization
- ☐ security
- ☐ services and applications

Submission Guideline

Authors should follow the Telecommunication Systems manuscript format described at <http://www.kluweronline.com/issn/1018-4864>. Prospective authors should submit a PDF/PS version of complete manuscript to Guest Editor Prof. Chen at yschen@cs.ccu.edu.tw.

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