



# Wireless Sensor Networks: Current Status and Future Trends

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Wireless sensor networks (WSNs) utilize fast, cheap, and effective applications to imitate the human intelligence capability of sensing on a wider distributed scale. But acquiring data from the deployment area of a WSN is not always easy and multiple issues arise, including the limited resources of sensor devices run with one-time batteries. Additional WSN concerns include the external environment, routing, data aggregation, and ensuring quality of service (QoS) and security. Solutions have been developed for various types of application scenarios, but many problems still remain as open research challenges. **Wireless Sensor Networks: Current Status and Future Trends** covers the various issues associated with WSNs, including their structure, activities, and applications.

Bringing together the contributions of researchers and experts in the field, this book explores:

- Applications of WSNs, data-centric storage, environmental forest monitoring, and the fundamentals of wireless body area networks
- Mobile medium access control (MAC) protocols, cooperative diversity sensor systems, and WSNs operating in IEEE 802.11 networks
- Location and position estimation in WSNs, techniques used in localization algorithms, and localization schemes
- Energy-centric simulation and design space exploration
- The fundamentals of MAC protocols and specific requirements and problems
- Protocols and data gathering
- Privacy and security issues in WSNs, solutions based on watermarking, and proposed work on intrusion detection systems (IDS) in WSNs

Reviewing current trends in research and development as well as future expectations in the relevant areas, this book is a valuable reference for students, graduates, academics, researchers of computer science, and engineers, whether working in professional organizations or research institutions.

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