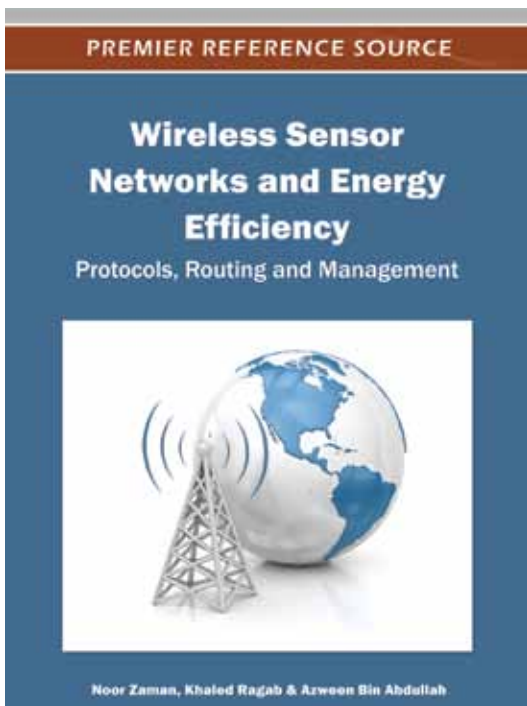


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Wireless Sensor Networks and Energy Efficiency: Protocols, Routing and Management



Noor Zaman (King Faisal University, Saudi Arabia),
Khaled Ragab (King Faisal University, Saudi Arabia) and
Azween Bin Abdullah (Universiti Teknologi Petronas, Malaysia)

The study of Wireless Sensor Networks (WSN) is a continually growing, as these networks have the advantage of easy deployment for a number of different applications.

Wireless Sensor Networks and Energy Efficiency: Protocols, Routing and Management focuses on wireless sensor networks and their operation, covering topics including routing, energy efficiency and management. Containing 27 chapters authored by a group of internationally experienced professionals and researchers in the fields of computer science, communication, and networking, this book discusses critical issues in wireless sensor network research including MAC, Routing Protocols, TCP, performance and traffic management, time synchronization, and security.

Topics Covered:

- Cross Layer Design Protocols for Wireless Sensor Networks
- Energy Efficient Routing Protocols
- Intelligent Transport Systems
- Network Management of Wireless Sensor Networks
- Node Localization
- Particle Swarm Optimization
- Routing Optimization
- Routing Techniques
- Security in Wireless Sensor Networks
- Topology Management

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Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

Noor Zaman acquired his Degree in Engineering in 1998, and Master's in Computer Science at the University of Agriculture in Faisalabad Pakistan in 2000. His academic achievements further extended with a PhD in Information Technology at University Technology PETRONAS (UTP), Malaysia (expected in 2012). He is currently working as a Faculty member in the College of Computer Science and Information Technology, King Faisal University, in Saudi Arabia. He takes care of versatile operations including teaching, research activities, Information Technology management and leading ERP projects. He headed the Department of Information Technology (IT), and administered the prometric center in the Institute of Business and Technology (BIZTEK), in Karachi Pakistan. He has worked as a consultant for Network and Server Management remotely in Apex Canada USA base Software house and call center. Noor Zaman has authored more than 35 research papers, and edited two books, has many publications to his credit. He is an associate Editor and reviewers for reputed international research journals around the world. He has completed several research grants and currently involved with funded projects in different countries. His areas of interest include Wireless Sensor Network (WSN), Network, Network and Communication, Telecommunication, Mobile Computing, Software Engineering, Artificial Intelligence, Unix, and Linux.



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