

Nirupama Bulusu • Sanjay Jha
editors

WIRELESS SENSOR NETWORKS

A Systems Perspective

Wireless Sensor Networks A Systems Perspective Artech House Mems And Sensors Library

Subir Kumar Sarkar



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Multimedia-enabled Sensors in IoT Fadi Al-Turjman, 2018-04-19 This book gives an overview of best effort data and real time multipath routing protocols in WMSN It provides results of recent research in design issues affecting the development of strategic multipath routing protocols that support multimedia data traffic in WMSN from an IoT perspective plus detailed analysis on the appropriate traffic models Advances in Wireless Sensor Networks Limin Sun, Huadong Ma, Dingyi Fang, Jinping Niu, Wei Wang, 2015-05-15 This book constitutes the refereed proceedings of the 8th China Conference of Wireless Sensor Networks held in Xi an China in October November 2014 The 64 revised full papers were carefully reviewed and selected from 365 submissions The papers are organized in topical sections on power control and management network architecture and deployment positioning and location based services in wireless sensor networks security and privacy wireless communication systems and protocols routing algorithm and transport protocols in wireless sensor networks wireless communication protocols and sensor data quality integrity and trustworthiness Internet of Things wireless mobile network architecture in vehicle network indoor positioning and location based services applications of wireless sensor networks **Choice** ,2005 **American Book Publishing Record** ,2004 *Forthcoming Books* Rose Army, 2001 **Wireless Sensor Networks** Nirupama Bulusu, 2005 This first of its kind resource offers you an in depth understanding of wireless sensor networks from a systems perspective The book describes and categorizes the technological trends leading applications state of the art platform developments future trends and challenges of sensor networks You find critical coverage of network protocols and mechanisms for node localization time synchronization media access control topology creation and management routing transport storage collaborative signal processing security and fault tolerance and node deployment in large scale sensor networks *Wireless Sensor Networks for Healthcare Applications* Terrance J. Dishongh, Michael McGrath, Ben Kuris, 2010 This unique reference focuses on methods of application validation and testing based on real deployments of sensor networks in the clinical and home environments Key topics include healthcare and wireless sensors sensor network applications designs of experiments using sensors data collection and decision making clinical deployment of wireless sensor networks contextual awareness medication prompting field trials in homes social health monitoring and the future of wireless sensor networks in healthcare Wireless Sensor and Ad Hoc Networks Under Diversified Network Scenarios Subir Kumar Sarkar, 2012 Due to significant advantages including convenience efficiency and cost effectiveness the implementation and use of wireless ad hoc and sensor networks have achieved steep growth in recent years This book presents the advances made in these popular technologies providing expert guidance to practitioners and researchers in the field **Wireless Sensor Networks** Kazem Sohraby, Daniel Minoli, Taieb Znati, 2007-03-31 Infrastructure for Homeland Security Environments Wireless Sensor Networks helps readers discover the emerging field of low cost standards based sensors that promise a high order of spatial and temporal resolution and accuracy in an ever increasing

universe of applications It shares the latest advances in science and engineering paving the way towards a large plethora of new applications in such areas as infrastructure protection and security healthcare energy food safety RFID ZigBee and processing Unlike other books on wireless sensor networks that focus on limited topics in the field this book is a broad introduction that covers all the major technology standards and application topics It contains everything readers need to know to enter this burgeoning field including current applications and promising research and development communication and networking protocols middleware architecture for wireless sensor networks and security and management The straightforward and engaging writing style of this book makes even complex concepts and processes easy to follow and understand In addition it offers several features that help readers grasp the material and then apply their knowledge in designing their own wireless sensor network systems Examples illustrate how concepts are applied to the development and application of wireless sensor networks Detailed case studies set forth all the steps of design and implementation needed to solve real world problems Chapter conclusions that serve as an excellent review by stressing the chapter s key concepts References in each chapter guide readers to in depth discussions of individual topics This book is ideal for networking designers and engineers who want to fully exploit this new technology and for government employees who are concerned about homeland security With its examples it is appropriate for use as a coursebook for upper level undergraduates and graduate students

Wireless Sensor Networks: a Systems Perspective Phoebe Hill, 2022-09-27 Wireless sensor network can be described as a self configured and infrastructureless wireless network that is used to monitor physical or environmental conditions such as temperature sound vibration pressure motion or pollutants It also conveys its data through the network to the main location or sink where the data can be observed and analyzed A sink or base station is an interface between the users and the network The required details from the network can be retrieved by putting queries in the sink Wireless sensor networks are applied in various domains such as the military area monitoring transportation health applications environmental sensing structural monitoring industrial monitoring and the agricultural sector This book elucidates the concepts and innovative models around prospective developments with respect to wireless sensor networks The ever growing need for advanced technology is the reason that has fueled the research in WSNs in recent times This book will provide comprehensive knowledge to the readers

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