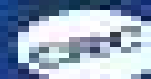


# **A COMPLETE GUIDE TO WIRELESS SENSOR NETWORKS**

**FROM INCEPTION TO CURRENT TRENDS**

Ankur Damka, Sandip K. Chaurasiya,  
Arindam Biswas, and Hardwari Lal Mandloria



**CRC Press**  
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# Guide To Wireless Sensor Networks Computer Communications And Networks

**Sudip Misra, Isaac Woungang, Subhas  
Chandra Misra**



## **Guide To Wireless Sensor Networks Computer Communications And Networks:**

**Guide to Wireless Sensor Networks** Sudip Misra, Isaac Woungang, Subhas Chandra Misra, 2009-05-29 Overview and Goals Wireless communication technologies are undergoing rapid advancements The last few years have experienced a steep growth in research in the area of wireless sensor networks WSNs In WSNs communication takes place with the help of spatially distributed autonomous sensor nodes equipped to sense specific information WSNs especially the ones that have gained much popularity in the recent years are typically ad hoc in nature and they inherit many characteristics features of wireless ad hoc networks such as the ability for infrastructure less setup minimal or no reliance on network planning and the ability of the nodes to self organize and self configure without the involvement of a centralized network manager router access point or a switch These features help to set up WSNs fast in situations where there is no existing network setup or in times when setting up a fixed infrastructure network is considered infeasible for example in times of emergency or during relief operations WSNs find a variety of applications in both the military and the civilian population worldwide such as in cases of enemy intrusion in the battlefield object tracking habitat monitoring patient monitoring fire detection and so on Even though sensor networks have emerged to be attractive and they hold great promises for our future there are several challenges that need to be addressed Some of the well known challenges are attributed to issues relating to coverage and deployment scalability quality of service size computational power energy efficiency and security

**A Complete Guide to Wireless Sensor Networks** Ankur Dumka, Sandip K. Chaurasiya, Arindam Biswas, Hardwari Lal Mandoria, 2019-05-31 This book provides comprehensive coverage of the major aspects in designing implementing and deploying wireless sensor networks by discussing present research on WSNs and their applications in various disciplines It familiarizes readers with the current state of WSNs and how such networks can be improved to achieve effectiveness and efficiency It starts with a detailed introduction of wireless sensor networks and their applications and proceeds with layered architecture of WSNs It also addresses prominent issues such as mobility heterogeneity fault tolerance intermittent connectivity and cross layer optimization along with a number of existing solutions to stimulate future research

**Wireless Sensor Networks** Siva Yellampalli, 2021-09-15 Wireless sensor networks WSNs consist of tiny sensors capable of sensing computing and communicating Due to advances in semiconductors networking and material science technologies it is now possible to deploy large scale WSNs The advancement in these technologies has not only decreased the deployment and maintenance costs of networks but has also increased the life of networks and made them more rugged As WSNs become more reliable with lower maintenance costs they are being deployed and used across various sectors for multiple applications This book discusses the applications challenges and design and deployment techniques of WSNs

**Handbook of Research on Wireless Sensor Network Trends, Technologies, and Applications** Kamila, Narendra Kumar, 2016-08-04 Wireless sensor networks have become an intricate and necessary addition to daily life by providing an energy efficient way to collect and monitor data

while rerouting the information to a centralized location As the application of these networks becomes more common it becomes imperative to evaluate their effectiveness as well as other opportunities for possible implementation in the future The Handbook of Research on Wireless Sensor Network Trends Technologies and Applications provides inclusive coverage on the processing and applications of wireless communication sensor networks and mobile computing Investigating emergent research and theoretical concepts in the area of wireless sensors and their applications to daily life this handbook of research is a critical reference source for students researchers engineers scientists and working professionals

**Green Networking and Communications** Shafiullah Khan,Jaime Lloret Mauri,2013-10-29 Although the information and communication technology ICT industry accounted for only 2 percent of global greenhouse gas emissions in 2007 the explosive increase in data traffic brought about by a rapidly growing user base of more than a billion wireless subscribers is expected to nearly double that number by 2020 It is clear that now is the ti

**Principles of Wireless Sensor Networks** Mohammad S. Obaidat,Sudip Misra,2014-12-04 A concise and clear guide to the concepts and applications of wireless sensor networks ideal for students practitioners and researchers

**Recent Trends in Computational Intelligence Enabled Research** Siddhartha Bhattacharyya,Paramartha Dutta,Debabrata Samanta,Anirban Mukherjee,Indrajit Pan,2021-07-31 The field of computational intelligence has grown tremendously over that past five years thanks to evolving soft computing and artificial intelligent methodologies tools and techniques for envisaging the essence of intelligence embedded in real life observations Consequently scientists have been able to explain and understand real life processes and practices which previously often remain unexplored by virtue of their underlying imprecision uncertainties and redundancies and the unavailability of appropriate methods for describing the incompleteness and vagueness of information represented With the advent of the field of computational intelligence researchers are now able to explore and unearth the intelligence otherwise insurmountable embedded in the systems under consideration Computational Intelligence is now not limited to only specific computational fields it has made inroads in signal processing smart manufacturing predictive control robot navigation smart cities and sensor design to name a few Recent Trends in Computational Intelligence Enabled Research Theoretical Foundations and Applications explores the use of this computational paradigm across a wide range of applied domains which handle meaningful information Chapters investigate a broad spectrum of the applications of computational intelligence across different platforms and disciplines expanding our knowledge base of various research initiatives in this direction This volume aims to bring together researchers engineers developers and practitioners from academia and industry working in all major areas and interdisciplinary areas of computational intelligence communication systems computer networks and soft computing Provides insights into the theory algorithms implementation and application of computational intelligence techniques Covers a wide range of applications of deep learning across various domains which are researching the applications of computational intelligence Investigates novel techniques and reviews the state of the art in the areas of

machine learning computer vision soft computing techniques      *Sensor Systems and Software* Gerard Parr, Philip Morrow, 2011-09-06 This book constitutes the thoroughly refereed post conference proceedings of the Second International ICST Conference on Sensor Systems and Software S Cube 2010 held in Miami Florida USA in December 2010 The 17 revised full papers presented were carefully reviewed and selected and cover a wide range of topics including sensor application programming paradigms novel sensor applications sensor network middleware trust security and privacy wireless sensor network management and monitoring and sensor application development support systems      **Theory and Practice of Cryptography Solutions for Secure Information Systems** Elçi, Atilla, Pieprzyk, Josef, Chefranov, Alexander G., Orgun, Mehmet A., Wang, Huaxiong, Shankaran, Rajan, 2013-05-31 Information Systems IS are a nearly omnipresent aspect of the modern world playing crucial roles in the fields of science and engineering business and law art and culture politics and government and many others As such identity theft and unauthorized access to these systems are serious concerns Theory and Practice of Cryptography Solutions for Secure Information Systems explores current trends in IS security technologies techniques and concerns primarily through the use of cryptographic tools to safeguard valuable information resources This reference book serves the needs of professionals academics and students requiring dedicated information systems free from outside interference as well as developers of secure IS applications This book is part of the Advances in Information Security Privacy and Ethics series collection      **Internet of Things and Big Data Analytics Toward Next-Generation Intelligence** Nilanjan Dey, Aboul Ella Hassanien, Chintan Bhatt, Amira S. Ashour, Suresh Chandra Satapathy, 2017-08-14 This book highlights state of the art research on big data and the Internet of Things IoT along with related areas to ensure efficient and Internet compatible IoT systems It not only discusses big data security and privacy challenges but also energy efficient approaches to improving virtual machine placement in cloud computing environments Big data and the Internet of Things IoT are ultimately two sides of the same coin yet extracting analyzing and managing IoT data poses a serious challenge Accordingly proper analytics infrastructures platforms should be used to analyze IoT data Information technology IT allows people to upload retrieve store and collect information which ultimately forms big data The use of big data analytics has grown tremendously in just the past few years At the same time the IoT has entered the public consciousness sparking people's imaginations as to what a fully connected world can offer Further the book discusses the analysis of real time big data to derive actionable intelligence in enterprise applications in several domains such as in industry and agriculture It explores possible automated solutions in daily life including structures for smart cities and automated home systems based on IoT technology as well as health care systems that manage large amounts of data big data to improve clinical decisions The book addresses the security and privacy of the IoT and big data technologies while also revealing the impact of IoT technologies on several scenarios in smart cities design Intended as a comprehensive introduction it offers in depth analysis and provides scientists engineers and professionals the latest techniques frameworks and strategies used in IoT and big data

technologies      *Wireless Sensor Networks* Ian F. Akyildiz, Mehmet Can Vuran, 2010-06-10 This book presents an in depth study on the recent advances in Wireless Sensor Networks WSNs The authors describe the existing WSN applications and discuss the research efforts being undertaken in this field Theoretical analysis and factors influencing protocol design are also highlighted The authors explore state of the art protocols for WSN protocol stack in transport routing data link and physical layers Moreover the synchronization and localization problems in WSNs are investigated along with existing solutions Furthermore cross layer solutions are described Finally developing areas of WSNs including sensor actor networks multimedia sensor networks and WSN applications in underwater and underground environments are explored The book is written in an accessible textbook style and includes problems and solutions to assist learning Key Features The ultimate guide to recent advances and research into WSNs Discusses the most important problems and issues that arise when programming and designing WSN systems Shows why the unique features of WSNs self organization cooperation correlation will enable new applications that will provide the end user with intelligence and a better understanding of the environment Provides an overview of the existing evaluation approaches for WSNs including physical testbeds and software simulation environments Includes examples and learning exercises with a solutions manual supplemented by an accompanying website containing PPT slides *Wireless Sensor Networks* is an essential textbook for advanced students on courses in wireless communications networking and computer science It will also be of interest to researchers system and chip designers network planners technical managers and other professionals in these fields      *Intrusion Detection Systems* Pawel Skrobanek, 2011-03-22 The current structure of the chapters reflects the key aspects discussed in the papers but the papers themselves contain more additional interesting information examples of a practical application and results obtained for existing networks as well as results of experiments confirming efficacy of a synergistic analysis of anomaly detection and signature detection and application of interesting solutions such as an analysis of the anomalies of user behaviors and many others      *Advances in Computing and Information Technology* Natarajan Meghanathan, Dhinakaran Nagamalai, Nabendu Chaki, 2012-06-30 The international conference on Advances in Computing and Information technology ACITY 2012 provides an excellent international forum for both academics and professionals for sharing knowledge and results in theory methodology and applications of Computer Science and Information Technology The Second International Conference on Advances in Computing and Information technology ACITY 2012 held in Chennai India during July 13 15 2012 covered a number of topics in all major fields of Computer Science and Information Technology including networking and communications network security and applications web and internet computing ubiquitous computing algorithms bioinformatics digital image processing and pattern recognition artificial intelligence soft computing and applications Upon a strength review process a number of high quality presenting not only innovative ideas but also a founded evaluation and a strong argumentation of the same were selected and collected in the present proceedings that is composed of three different

volumes     **Bio-inspiring Cyber Security and Cloud Services: Trends and Innovations** Aboul Ella Hassanien, Tai-Hoon Kim, Janusz Kacprzyk, Ali Ismail Awad, 2014-06-26 This volume presents recent research in cyber security and reports how organizations can gain competitive advantages by applying the different security techniques in real world scenarios The volume provides reviews of cutting edge technologies algorithms applications and insights for bio inspiring cyber security based systems The book will be a valuable companion and comprehensive reference for both postgraduate and senior undergraduate students who are taking a course in cyber security The volume is organized in self contained chapters to provide greatest reading flexibility     **Cyberspace Safety and Security** Guojun Wang, Indrakshi Ray, Dengguo Feng, Muttukrishnan Rajarajan, 2013-11-08 This book constitutes the proceedings of the 5th International Symposium on Cyberspace Safety and Security CSS 2013 held in Zhangjiajie China in November 2013 The 30 full papers presented in this volume were carefully reviewed and selected from 105 submissions In addition the book contains 6 workshop papers The papers are organized in topical sections named data and applications security network and communications security software and systems security and cloud security and cyberspace safety     *Guide to Wireless Ad Hoc Networks* Sudip Misra, Isaac Woungang, Subhas Chandra Misra, 2009-03-02 Overview and Goals Wireless communication technologies are undergoing rapid advancements The past few years have experienced a steep growth in research in the area of wireless ad hoc networks The attractiveness of ad hoc networks in general is attributed to their characteristics features such as ability for infrastructure less setup minimal or no reliance on network planning and the ability of the nodes to self organize and self configure without the involvement of a centralized network manager router access point or a switch These features help to set up a network fast in situations where there is no existing network setup or in times when setting up a fixed infrastructure network is considered infeasible for example in times of emergency or during relief operations Even though ad hoc networks have emerged to be attractive and they hold great promises for our future there are several challenges that need to be addressed Some of the well known challenges are attributed to issues relating to scalability quality of service energy efficiency and security     **Wireless Sensor Networks** Hossam Mahmoud Ahmad Fahmy, 2020-01-25 This second book by the author on WSNs focuses on the concepts of energy and energy harvesting and management techniques Definitions and terminologies are made clear without leaning on the relaxing assumption that they are already known or easily reachable the reader is not to be diverted from the main course Neatly drawn figures assist in viewing and imagining the offered topics To make energy related topics felt and seen the adopted technologies as well as their manufacturers are presented in details With such a depth this book is intended for a wide audience it is meant to be helper and motivator for the senior undergraduates postgraduates researchers and practitioners concepts and energy related applications are laid out research and practical issues are backed by appropriate literature and new trends are put under focus For senior undergraduate students it familiarizes with conceptual foundations and practical projects implementations Also it is intended for graduate

students working on their thesis and in need of specific knowledge on WSNs and the related energy harvesting and management techniques Moreover it is targeting researchers and practitioners interested in features and applications of WSNs and on the available energy harvesting and management projects and testbeds Exercises at the end of each chapter are not just questions and answers they are not limited to recapitulate ideas Their design objective is not bound to be a methodical review of the provided concepts but rather as a motivator for lot more of searching finding and comparing beyond what has been presented in the book

**Innovations in Bio-Inspired Computing and Applications** Ajith

Abraham,Niketa Gandhi,Millie Pant,2019-05-21 This book highlights recent research on bio inspired computing and its various innovative applications in Information and Communication Technologies It presents 50 high quality papers from the 9th International Conference on Innovations in Bio Inspired Computing and Applications IBICA 2018 and 7th World Congress on Information and Communication Technologies WICT 2018 which was held at Toc H Institute of Science and Technology TIST on December 17 19 2018 IBICA WICT 2018 was a premier conference and brought together researchers engineers and practitioners whose work involved bio inspired computing computational intelligence and their applications in information security real world contexts etc Including contributions by authors from 22 countries the book offers a valuable reference guide for all researchers students and practitioners in the fields of Computer Science and Engineering

Soft Computing Applications in Sensor Networks Sankar K. Pal,Sudip Misra,2016-10-03 This book uses tutorials and new material to describe the basic concepts of soft computing which potentially can be used in real life sensor network applications It is organized in a manner that exemplifies the use of an assortment of soft computing applications for solving different problems in sensor networking Written by worldwide experts the chapters provide a balanced mixture of different problems concerning channel access routing coverage localization lifetime maximization and target tracking using emerging soft computing applications

*Trustworthy Ubiquitous Computing* Ismail Khalil,Teddy Mantoro,2012-09-13 Trustworthy Ubiquitous Computing covers aspects of trust in ubiquitous computing environments The aspects of context privacy reliability usability and user experience related to emerged and exciting new computing paradigm of Ubiquitous Computing includes pervasive grid and peer to peer computing including sensor networks to provide secure computing and communication services at anytime and anywhere Marc Weiser presented his vision of disappearing and ubiquitous computing more than 15 years ago The big picture of the computer introduced into our environment was a big innovation and the starting point for various areas of research In order to totally adopt the idea of ubiquitous computing several houses were build equipped with technology and used as laboratory in order to find and test appliances that are useful and could be made available in our everyday life Within the last years industry picked up the idea of integrating ubiquitous computing and already available products like remote controls for your house were developed and brought to the market In spite of many applications and projects in the area of ubiquitous and pervasive computing the success is still far away One of the main reasons is the lack of acceptance of and confidence in this



technology Although researchers and industry are working in all of these areas a forum to elaborate security reliability and privacy issues that resolve in trustworthy interfaces and computing environments for people interacting within these ubiquitous environments is important The user experience factor of trust thus becomes a crucial issue for the success of a UbiComp application The goal of this book is to provide a state the art of Trustworthy Ubiquitous Computing to address recent research results and to present and discuss the ideas theories technologies systems tools applications and experiences on all theoretical and practical issues

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