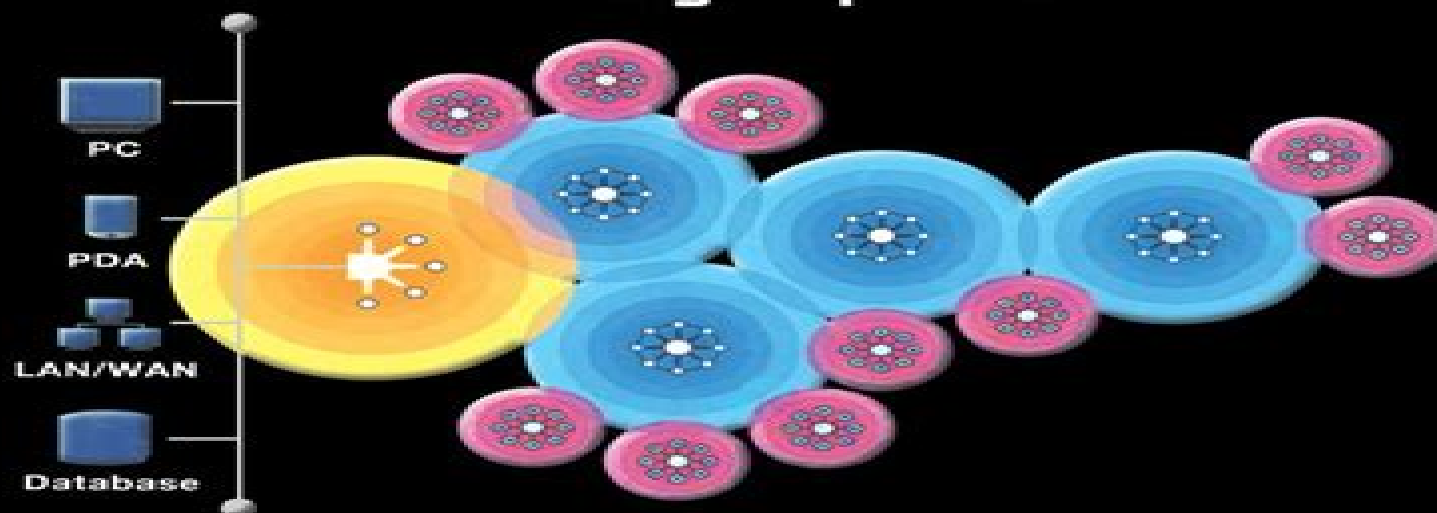


Handbook of Sensor Networks: Compact Wireless and Wired Sensing Systems



Edited by
MOHAMMAD ILYAS AND IMAD MAHGOUB

Handbook Of Sensor Networks

Marvin Heather



Handbook Of Sensor Networks:

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Handbook of Research on Developments and Trends in Wireless Sensor Networks Hai Jin,2010 This book showcases the work many devoted wireless sensor network researchers all over world and exhibits the up to date developments of WSNs from various perspectives Provided by publisher

Handbook of Wireless Sensor Networks: Issues and Challenges in Current Scenario's Pradeep Kumar Singh,Bharat K. Bhargava,Marcin Paprzycki,Narottam Chand Kaushal,Wei-Chiang Hong,2020-02-08 This book explores various challenging problems and applications areas of wireless sensor networks WSNs and identifies the current issues and future research challenges Discussing the latest developments and advances it covers all aspects of in WSNs from architecture to protocols design and from algorithm development to synchronization issues As such the book is an essential reference resource for undergraduate and postgraduate students as well as scholars and academics working in the field

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from sensor networks can be found in the field of transport environmental studies engineering production technologies security etc A huge number of problems related to the input of data directly from sensors to an automated system can be solved by using distributed sensor systems This book discusses distributed sensor networks by essentially focusing on applications and recent researches It provides key ideas and approaches which can help in the development of high performance computing solutions for complex sensor networks problems

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Handbook on Theoretical and Algorithmic Aspects of Sensor, Ad Hoc Wireless, and Peer-to-Peer Networks Jie Wu, 2005-08-08 The availability of cheaper faster and more reliable electronic components has stimulated important advances in computing and communication technologies Theoretical and algorithmic approaches that address key issues in sensor networks ad hoc wireless networks and peer to peer networks play a central role in the development of emerging network

Embedded Systems Handbook Richard Zurawski, 2017-12-19 Considered a standard industry resource the Embedded Systems Handbook provided researchers and technicians with the authoritative information needed to launch a wealth of diverse applications including those in automotive electronics industrial automated systems and building automation and control Now a new resource is required to report on current developments and provide a technical reference for those looking to move the field forward yet again Divided into two volumes to accommodate this growth the Embedded Systems Handbook Second Edition presents a comprehensive view on this area of computer engineering with a currently appropriate emphasis on developments in networking and applications Those experts directly involved in the creation and evolution of the ideas and technologies presented offer tutorials research surveys and technology overviews that explore cutting edge developments and deployments and identify potential trends This second self contained volume of the handbook Network Embedded Systems focuses on select application areas It covers automotive field industrial automation building automation and wireless sensor networks This volume highlights implementations in fast evolving areas which have not received proper coverage in other publications Reflecting the unique functional requirements of different application

areas the contributors discuss inter node communication aspects in the context of specific applications of networked embedded systems Those looking for guidance on preliminary design of embedded systems should consult the first volume **Embedded Systems Design and Verification Handbook of Distributed Sensor Networks: Volume II** Marvin Heather, 2015-03-21 Some of the applications that have been derived from sensor networks can be found in the field of transport environmental studies engineering production technologies security etc A huge number of problems related to the input of data directly from sensors to an automated system can be solved by using distributed sensor systems This book discusses distributed sensor networks by essentially focusing on applications and recent researches It provides key ideas and approaches which can help in the development of high performance computing solutions for complex sensor networks problems

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 etc 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

Sensor Network Protocols Imad Mahgoub, Mohammad Ilyas, 2006-01-27 Sensor networks continue to grow in importance for modern communication networks Communication protocols are at the core of these networks determining their ability to function their capabilities and the environments in which they are able to operate In chapters carefully selected from the popular Handbook of Sensor Networks Sensor Network Protocols supplies a sharply focused reference on protocols security data processing and energy management in communication sensor networks that is ideal for specialists in the field Providing a succinct guide to the protocols currently used in advanced sensor networks this book focuses on four main areas routing protocols data gathering and processing security and reliability and energy management The book opens with a survey of the challenges and opportunities facing the field Then expert contributors authoritatively discuss routing technologies next

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