

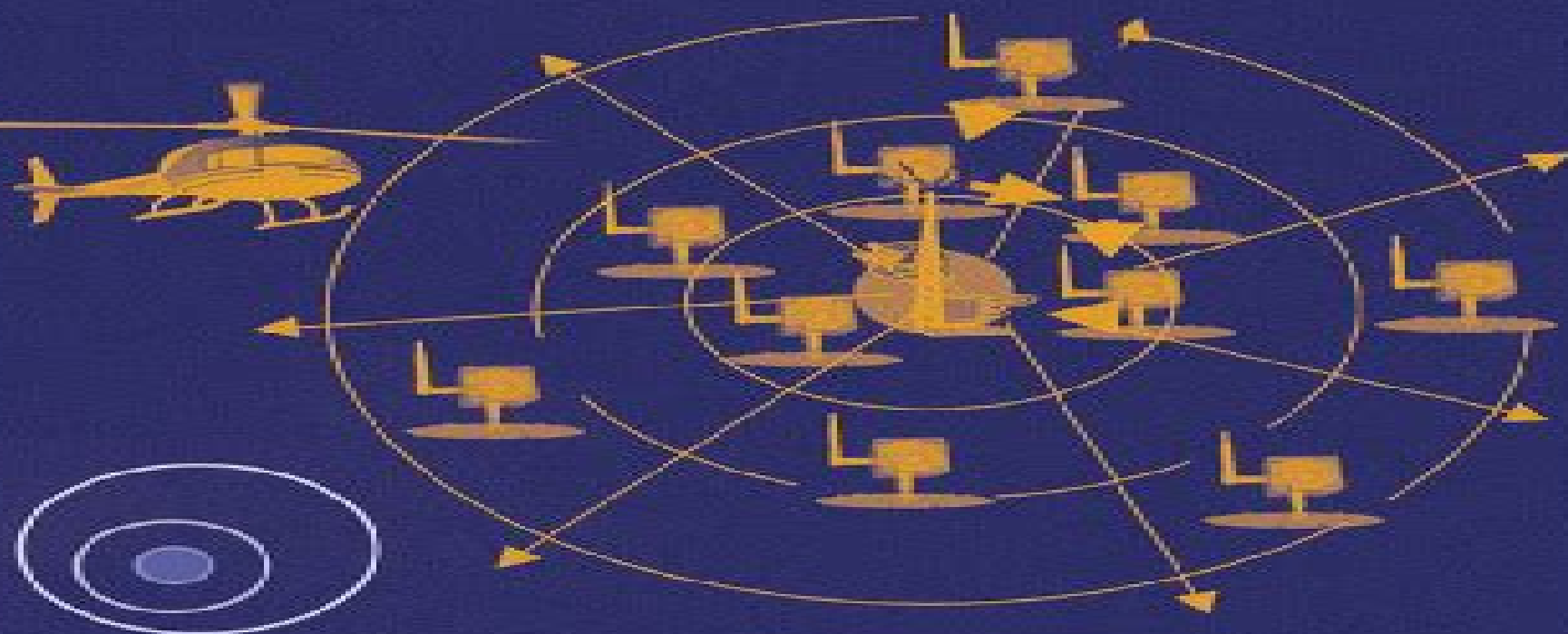
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HANDBOOK OF

SENSOR NETWORKS

ALGORITHMS AND ARCHITECTURES



IVAN STOJMENVIĆ, EDITOR



Handbook Of Sensor Networks Algorithms And Architectures

Jiyuan Zhang



Handbook Of Sensor Networks Algorithms And Architectures:

Handbook On Sensor Networks Yang Xiao,Hui Chen, Frank Haizhon Li, 2010-08-30 Sensor networks have many interesting applications with great utility however their actual deployment and realization rely on continuous innovations and solutions to many challenging problems Thus sensor networks have recently attracted the attention of many researchers and practitioners The compilation of the Handbook on Sensor Networks will meet the demand of the sensor network community for a comprehensive reference and summary of the current state of the area The Handbook on Sensor Networks is a collection of approximately 40 chapters on sensor network theory and applications The book spans a wide spectrum and includes topics in medium access control routing security and privacy coverage and connectivity modeling and simulations multimedia energy efficiency localization and tracking design and implementation as well as sensor network applications

Handbook of Sensor Networks Ivan Stojmenovic, 2005-10-05 The State Of The Art Of Sensor Networks Written by an international team of recognized experts in sensor networks from prestigious organizations such as Motorola Fujitsu the Massachusetts Institute of Technology Cornell University and the University of Illinois Handbook of Sensor Networks Algorithms and Architectures tackles important challenges and presents the latest trends and innovations in this growing field Striking a balance between theoretical and practical coverage this comprehensive reference explores a myriad of possible architectures for future commercial social and educational applications and offers insightful information and analyses of critical issues including Sensor training and security Embedded operating systems Signal processing and medium access Target location tracking and sensor localization Broadcasting routing and sensor area coverage Topology construction and maintenance Data centric protocols and data gathering Time synchronization and calibration Energy scavenging and power sources With exercises throughout students researchers and professionals in computer science electrical engineering and telecommunications will find this an essential read to bring themselves up to date on the key challenges affecting the sensors industry

Handbook of Sensor Networks Ivan Stojmenovic, 2005-09-19 The State Of The Art Of Sensor Networks Written by an international team of recognized experts in sensor networks from prestigious organizations such as Motorola Fujitsu the Massachusetts Institute of Technology Cornell University and the University of Illinois Handbook of Sensor Networks Algorithms and Architectures tackles important challenges and presents the latest trends and innovations in this growing field Striking a balance between theoretical and practical coverage this comprehensive reference explores a myriad of possible architectures for future commercial social and educational applications and offers insightful information and analyses of critical issues including Sensor training and security Embedded operating systems Signal processing and medium access Target location tracking and sensor localization Broadcasting routing and sensor area coverage Topology construction and maintenance Data centric protocols and data gathering Time synchronization and calibration Energy scavenging and power sources With exercises throughout students researchers and professionals in computer science electrical engineering

and telecommunications will find this an essential read to bring themselves up to date on the key challenges affecting the sensors industry *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.

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*.

Mobile Ad-hoc and Sensor Networks Hongke Zhang, 2007-11-19. This book constitutes the refereed

proceedings of the Third International Conference on Mobile Ad hoc and Sensor Networks MSN 2007 held in Beijing China in December 2007 The papers address all current issues in mobile ad hoc and sensor networks and are organized in topical sections on routing network protocols energy efficiency data processing self organization and synchronization deployment and application as well as security *Architecture-Independent Programming for Wireless Sensor Networks* Amol B.

Bakshi,Viktor K. Prasanna,2008-06-02 New automated application independent methodology for designing and deploying sensor networks Following this book s clear explanations examples and illustrations domain experts can design and deploy nontrivial networked sensing applications without much knowledge of the low level networking aspects of deployment This new approach is based on the Abstract Task Graph ATaG a data driven programming model and an innovative methodology for architecture independent programming and automatic software synthesis for sensor networks ATaG programs are concise understandable and network independent descriptions of global application functionality that can be automatically compiled onto any target deployment The book begins with an overview chapter that addresses the important issues of programming methodologies and compares various programming models for sensor networks Next the authors set forth everything you need for designing and deploying sensor networks using ATaG including Detailed description of the ATaG model s features System level support for architecture independent programming Examination of the graphical programming and software synthesis environment for ATaG Case study illustrating the process of end to end application development and software synthesis using ATaG Throughout the book the authors provide code excerpts and figures to help clarify key concepts and explain each step For programmers the graphical formalism of the ATaG program coupled with the fact it uses an existing language Java means that no special training is needed to start developing and deploying applications in ATaG Everything you need to know is clearly set forth in this book **Handbook of Research on Advanced Wireless Sensor Network**

Applications, Protocols, and Architectures Ray, Niranjana K.,Turuk, Ashok Kumar,2016-08-01 The implementation of wireless sensor networks has wide ranging applications for monitoring various physical and environmental settings However certain limitations with these technologies must be addressed in order to effectively utilize them The Handbook of Research on Advanced Wireless Sensor Network Applications Protocols and Architectures is a pivotal reference source for the latest research on recent innovations and developments in the field of wireless sensors Examining the advantages and challenges presented by the application of these networks in various areas this book is ideally designed for academics researchers students and IT developers **Computer Technology and Computer Programming** James L. Antonakos,2016-04-19 This

title includes a number of Open Access chapters Covering a broad range of new topics in computer technology and programming this volume discusses encryption techniques SQL generation Web 2 0 technologies and visual sensor networks It also examines reconfigurable computing video streaming animation techniques and more Readers will learn Trends in Network and Communications David C. Wyld,Michal Wozniak,Nabendu Chaki,Natarajan Meghanathan,Dhinakaran

Nagamalai,2011-06-30 This book constitutes the proceedings of three International Conferences NeCoM 2011 on Networks they present knowledge and results in theory methodology and applications of the Web and semantic technologies as well as current research on wireless and mobile communications networks protocols and on wireless and mobile security

High-Performance Parallel Database Processing and Grid Databases David Taniar,Clement H. C. Leung,Wenny Rahayu,Sushant Goel,2008-09-17 The latest techniques and principles of parallel and grid database processing The growth in grid databases coupled with the utility of parallel query processing presents an important opportunity to understand and utilize high performance parallel database processing within a major database management system DBMS This important new book provides readers with a fundamental understanding of parallelism in data intensive applications and demonstrates how to develop faster capabilities to support them It presents a balanced treatment of the theoretical and practical aspects of high performance databases to demonstrate how parallel query is executed in a DBMS including concepts algorithms analytical models and grid transactions High Performance Parallel Database Processing and Grid Databases serves as a valuable resource for researchers working in parallel databases and for practitioners interested in building a high performance database It is also a much needed self contained textbook for database courses at the advanced undergraduate and graduate levels

Optimization Techniques for Solving Complex Problems Enrique Alba,Christian Blum,Pedro Asasi,Coromoto Leon,Juan Antonio Gomez,2009-02-17 Real world problems and modern optimization techniques to solve them Here a team of international experts brings together core ideas for solving complex problems in optimization across a wide variety of real world settings including computer science engineering transportation telecommunications and bioinformatics Part One covers methodologies for complex problem solving including genetic programming neural networks genetic algorithms hybrid evolutionary algorithms and more Part Two delves into applications including DNA sequencing and reconstruction location of antennae in telecommunication networks metaheuristics FPGAs problems arising in telecommunication networks image processing time series prediction and more All chapters contain examples that illustrate the applications themselves as well as the actual performance of the algorithms Optimization Techniques for Solving Complex Problems is a valuable resource for practitioners and researchers who work with optimization in real world settings

High-Performance Computing on Complex Environments Emmanuel Jeannot,Julius Zilinskas,2014-04-10 With recent changes in multicore and general purpose computing on graphics processing units the way parallel computers are used and programmed has drastically changed It is important to provide a comprehensive study on how to use such machines written by specialists of the domain The book provides recent research results in high performance computing on complex environments information on how to efficiently exploit heterogeneous and hierarchical architectures and distributed systems detailed studies on the impact of applying heterogeneous computing practices to real problems and applications varying from remote sensing to tomography The content spans topics such as Numerical Analysis for Heterogeneous and Multicore

Systems Optimization of Communication for High Performance Heterogeneous and Hierarchical Platforms Efficient Exploitation of Heterogeneous Architectures Hybrid CPU GPU and Distributed Systems Energy Awareness in High Performance Computing and Applications of Heterogeneous High Performance Computing Covers cutting edge research in HPC on complex environments following an international collaboration of members of the ComplexHPC Explains how to efficiently exploit heterogeneous and hierarchical architectures and distributed systems Twenty three chapters and over 100 illustrations cover domains such as numerical analysis communication and storage applications GPUs and accelerators and energy efficiency

Task Scheduling for Parallel Systems Oliver Sinnen, 2007-05-04 A new model for task scheduling that dramatically improves the efficiency of parallel systems Task scheduling for parallel systems can become a quagmire of heuristics models and methods that have been developed over the past decades The author of this innovative text cuts through the confusion and complexity by presenting a consistent and comprehensive theoretical framework along with realistic parallel system models These new models based on an investigation of the concepts and principles underlying task scheduling take into account heterogeneity contention for communication resources and the involvement of the processor in communications For readers who may be new to task scheduling the first chapters are essential They serve as an excellent introduction to programming parallel systems and they place task scheduling within the context of the program parallelization process The author then reviews the basics of graph theory discussing the major graph models used to represent parallel programs Next the author introduces his task scheduling framework He carefully explains the theoretical background of this framework and provides several examples to enable readers to fully understand how it greatly simplifies and at the same time enhances the ability to schedule The second half of the text examines both basic and advanced scheduling techniques offering readers a thorough understanding of the principles underlying scheduling algorithms The final two chapters address communication contention in scheduling and processor involvement in communications Each chapter features exercises that help readers put their new skills into practice An extensive bibliography leads to additional information for further research Finally the use of figures and examples helps readers better visualize and understand complex concepts and processes Researchers and students in distributed and parallel computer systems will find that this text dramatically improves their ability to schedule tasks accurately and efficiently

Large-scale Distributed Systems and Energy Efficiency Jean-Marc Pierson, 2015-04-06 Addresses innovations in technology relating to the energy efficiency of a wide variety of contemporary computer systems and networks With concerns about global energy consumption at an all time high improving computer networks energy efficiency is becoming an increasingly important topic Large Scale Distributed Systems and Energy Efficiency A Holistic View addresses innovations in technology relating to the energy efficiency of a wide variety of contemporary computer systems and networks After an introductory overview of the energy demands of current Information and Communications Technology ICT individual chapters offer in depth analyses of such

topics as cloud computing green networking both wired and wireless mobile computing power modeling the rise of green data centers and high performance computing resource allocation and energy efficiency in peer to peer P2P computing networks Discusses measurement and modeling of the energy consumption method Includes methods for energy consumption reduction in diverse computing environments Features a variety of case studies and examples of energy reduction and assessment Timely and important Large Scale Distributed Systems and Energy Efficiency is an invaluable resource for ways of increasing the energy efficiency of computing systems and networks while simultaneously reducing the carbon footprint

Mobile Intelligence Laurence T. Yang, 2010-02-08 Focuses on learning patterns and knowledge from data generated by mobile users and mobile technology Covers research and application issues in applying computational intelligence applications to mobile computing Delivers benefits to a wide range of applications Introduces the state of the art of computational intelligence to the mobile paradigm

Ad-Hoc Networking Khaldoun Al Agha, 2006-11-24 Position based routing was originally developed for packet radio networks in the 1980s 6 It received renewed interest during the last few years as a method for routing in mobile wireless ad hoc and sensor networks 1 2 4 The general idea of is to select the next hop based on position information such that the packet is forwarded in the geographical direction of the destination Position based routing can be divided into two main components the location service and position based forwarding The location service 5 13 is used for mapping the unique identifier for example an IP address of a node to its geographical position In mobile ad hoc networks providing accurate location service for position based routing with low communication overhead appears to be more difficult task than routing itself 13 In case of sensor networks however destination is a sink or base station whose position is made available to source sensors by flooding Position based forwarding is performed by a node to select one of its neighbors as the next hop the packet should be forwarded to Usually the following information is required for the forwarding decision the node s own geographical position the position of all neighbors within transmission range and the position of the destination Based on this information the forwarding node selects one of its neighbors as the next hop such that the packet makes progress toward the geographical position of the destination

Ubiquitous Intelligence and Computing Jadwiga Indulska, Laurence T. Yang, Theo Ungerer, Jiannong Cao, 2007-08-15 A fascinating bird s eye view on a hugely relevant topic This book constitutes the refereed proceedings of the 4th International Conference on Ubiquitous Intelligence and Computing held in Hong Kong China in 2007 co located with ATC 2007 the 4th International Conference on Autonomic and Trusted Computing The 119 revised full papers presented together with 1 keynote paper and 1 invited paper were carefully reviewed and selected from 463 submissions The papers are organized in topical sections

Advances in Information and Communication Technology Masato Akagi, Thanh-Thuy Nguyen, Duc-Thai Vu, Trung-Nghia Phung, Van-Nam Huynh, 2016-12-07 This book features papers presented at the International Conference on Advances in Information and Communication Technology ICTA 2016 which was held in Thai Nguyen city Vietnam from December 1 to 13 2016 The

conference was jointly organized by Thai Nguyen University of Information and Communication Technology ICTU the Institute of Information Technology Vietnam Academy of Science and Technology IoIT Feng Chia University Taiwan FCU the Japan Advanced Institute of Science and Technology JAIST and the National Chung Cheng University Taiwan CCU with the aim of bringing together researchers academics practitioners and students to not only share research results and practical applications but also to foster collaboration in information and communication technology research and education The book includes the 66 best peer reviewed papers selected from the 150 submissions received *Ad Hoc Networks* Yifeng Zhou,Thomas Kunz,2016-12-16 This book constitutes the proceedings of the 8th International Conference on Ad Hoc Networks ADHOCNETS 2016 held in Ottawa Canada September 26 17 2016 The 34 revised full papers presented were carefully reviewed and selected from 46 submissions The papers provide visions trends challenges and opportunities in the area of ad hoc networking and emerging applications The conference also features two workshops on ad hoc network security and vulnerability and convergence of wireless directional network systems and software defined networking respectively

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