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Middleware Solutions for Wireless Internet of Things Springer
"This book highlights and discusses the underlying QoS issues that arise in the delivery of real-time multimedia services over wireless networks"--Provided by publisher.

Fiber Optics Broadband ISDN Elsevier
The proliferation of powerful but cheap devices, together with the availability of a plethora of wireless technologies, has pushed for the spread of the Wireless Internet of Things (WIoT), which is typically much more heterogeneous, dynamic, and general-purpose if compared with the traditional IoT. The WIoT is characterized by the dynamic interaction of traditional infrastructure-side devices, e.g., sensors and actuators, provided by municipalities in Smart City infrastructures, and other portable and more opportunistic ones, such as mobile smartphones, opportunistically integrated to dynamically extend and enhance the WIoT environment. A key enabler of this vision is the advancement of software and middleware technologies in various mobile-related sectors, ranging from the effective synergic management of wireless communications to mobility/adaptivity support in operating systems and differentiated integration and management of devices with heterogeneous capabilities in middleware, from horizontal support to crowdsourcing in different application domains to dynamic offloading to cloud resources, only to mention a few. The book presents state-of-the-art contributions in the articulated WIoT area by providing novel insights about the development and adoption of middleware solutions to enable the WIoT vision in a wide spectrum of heterogeneous scenarios, ranging from industrial environments to educational devices. The presented solutions provide readers with differentiated point of views, by demonstrating how the WIoT vision can be applied to several aspects of our daily life in a pervasive manner.
Pearson South Africa
This book presents the latest research in the fields of computational intelligence, ubiquitous computing models, communication intelligence, communication security, machine learning, informatics, mobile computing, cloud computing and big data analytics. The best selected papers, presented at the International Conference on Innovative Data Communication Technologies and Application (ICIDCA 2020), are included in the book. The book focuses on the theory, design, analysis, implementation and applications of distributed systems and networks.
Innovative Data Communication Technologies and Application McGraw-Hill College
This work presents the most recent research in the mechanism and machine science field and its applications. The topics covered include: theoretical kinematics, computational kinematics, mechanism design, experimental mechanics, mechanics of robots, dynamics of machinery, dynamics of multi-body systems, control issues of mechanical systems, mechanisms for biomechanics, novel designs, mechanical transmissions, linkages and manipulators, micro-mechanisms, teaching methods, history of mechanism science and industrial and non-industrial applications. This volume consists of the Proceedings of the 5th European Conference on Mechanisms Science (EUCOMES) that was held in Guimar ã es, Portugal, from September 16 – 20, 2014. The EUCOMES is the main forum for the European community working in Mechanisms and Machine Science.
Proceedings of the Third IFAC Workshop, Beijing, China, 15-17 August 1981 Springer Nature
This book contains a selection of papers presented at a symposium organized under the aegis of COST Telecommunications Action 285. COST (European Cooperation in the field of Scientific and Technical Research) is a framework for scientific and technical cooperation, allowing the coordination of national research on a European level. Action 285 sought to enhance existing tools and develop new modeling and simulation tools.
16th International Conference, DISC 2002. Toulouse, France, October 28-30, 2002, Proceedings Springer
With the advent of multinational corporations, the traditional urban service function has 'gone global'. In order to provide services to globalizing corporate clients, the offices of major financial and business service firms across the world have generated networks of work. It is the myriad of flows between office towers in different metropolitan centres that has produced a world city network. Taylor and Derudder's unique and illuminating book provides both an update and a substantial revision of the first edition that was published in 2004. It provides a comprehensive and systematic description and analysis of the world city network as the 'skeleton' upon which contemporary globalization has been built. Through an analysis of the intra-company flows of 175 leading global service firms across 526 cities in 2012, this book assesses cities in terms of their overall network connectivity, the regional configurations they form, and their changing position in the period 2000-12. Results are used to reflect on cities and city/state relations in the context of the global ecological and economic crisis. Written by two of the foremost authorities on the subject, this book provides a much-needed mapping of the connecting relationships between world cities, and will be a valuable resource for students of urban studies, geography, sociology and planning.
NIST Special Publication IGI Global
This book provides a comprehensive introduction to the underlying theory, design techniques and analytical results of wireless communication networks, focusing on the core principles of wireless network design. It elaborates the network utility maximization (NUM) theory with applications in resource allocation of wireless networks, with a central aim of design and the QoS guarantee. It presents and discusses state-of-the-art developments in resource allocation and performance optimization in wireless communication networks. It provides an overview of the general background including the basic wireless communication networks and the relevant protocols, architectures, methods and algorithms.
Innovative Data Communication Technologies and Application Springer Science & Business Media
The aim of MSCE 2014 is to provide a platform for researchers, engineers, and academicians, as well as industrial professionals, to present their research results and development activities in mechanism science and control engineering. It provides opportunities for the delegates to exchange new ideas and application experiences, to establish business or research relations and to find global partners for future collaboration. MSCE2014 is conducted to all the researchers, engineers, industrial professionals and academicians, who are broadly welcomed to present their latest research results, academic developments or theory practice. Topics of interest include but are not limited to Mechanism theory and Application, Mechanical control and Automation Engineering, Mechanical Dynamics, Materials Processing and Control, Instruments and Vibration Control. It is of great pleasure to see the delegates exchanging ideas and establishing sound relationships on the conference.
Proceedings of ICIDCA 2020 Office of Technology Assessment
This book gathers selected high-quality papers presented at the International Conference on Computing, Power and Communication Technologies 2019 (GUCON 2019), organized by Galgotias University, India, in September 2019. The content is divided into three sections – data mining and big data analysis, communication technologies, and cloud computing and computer networks. In-depth discussions of various issues within these broad areas provide an intriguing and insightful reference guide for researchers, engineers and students alike.
From Fundamentals to Industrial Applications Springer Nature
This book constitutes the refereed proceedings of the First Annual International Conference on Wireless Algorithms, Systems, and Applications, WASA 2006, held in Xi'an, China in August 2006. The book presents 63 revised full papers together with 2 invited keynote speech abstracts, organized in topical sections on wireless PAN and wireless LAN, wireless MAN and pervasive computing, data management, mobility, localization and topology control, performance modeling and analysis, security and more.
Fiber Optic Metropolitan Area Networks (MANs) IGI Global
Security and Privacy in Communication NetworksSecureComm 2017 International Workshops, ATCS and SePrIoT, Niagara Falls, ON, Canada, October 22–25, 2017, ProceedingsSpringer
Proceedings of ICIDCA 2021 Springer Science & Business Media
This chapter describes cloud computing technology and its impact on the data center network. We define the essential elements of cloud computing, including on-demand service, broad network access, resource pooling, elastic provisioning, and metered service at various quality of service levels. Models including software, platform, and infrastructure as a service (SaaS, PaaS, IaaS) are discussed, along with private, public, and hybrid cloud models and cloud service providers. Unique requirements of a cloud network include virtualization and virtual machine mobility, security, hypervisor virtual switching, converged storage, and new routing protocols such as Transparent Interconnection of Lots of Links (TRILL) and Shortest Path Bridging (SPB). We conclude with a brief discussion of software-defined networking (SDN) in the context of cloud computing.
Resource Allocation and Performance Optimization in Communication Networks and the Internet Springer Nature
Electrical energy usage is increasing every year due to population growth and new forms of consumption. As such, it is increasingly imperative to research methods of energy control and safe use. Security Solutions and Applied Cryptography in Smart Grid Communications is a pivotal reference source for the latest research on the development of smart grid technology and best practices of utilization. Featuring extensive coverage across a range of relevant perspectives and topics, such as threat detection, authentication, and intrusion detection, this book is ideally designed for academicians, researchers, engineers and students seeking current research on ways in which to implement smart grid platforms all over the globe.
Emerging Trends Springer Nature
"This book contains case studies, theories, and empirical research aimed to assist individuals and organizations in understanding the critical concepts of data networking and communications"--Provided by publisher.
International Conference on Mechanism Science and Control Engineering (MSCE 2014) Lulu.com
Written by leading scientists and researchers, this book presents a comprehensive reference of state-of-the-art efforts and early results in the area of autonomic networking and communication. This special issue explores different ways that autonomic principles can be applied to existing and future networks. In particular, the book has three main parts, each of them represented by three papers discussing them from industrial and academic perspectives.
techniques and applications Springer
This book constitutes the refereed proceedings of two workshops held at the 13th International Conference on Security and Privacy in Communications Networks, SecureComm 2017, held in Niagara Falls, ON, Canada, in October 2017: the 5th International Workshop on Applications and Techniques in Cyber Security, ATCS 2017, and the First Workshop on Security and Privacy in the Internet Of Things, SePrIoT 2017.The 22 revised regular papers were carefully reviewed and selected from 105 submissions. The topics range from access control; language-based security; malicious software; network security; cloud security; software security; operating system security; privacy protection, database security, security models; and many more.The SePrIoT workshop targets to address novel approaches in security and privacy. The papers focuse, amongst others, on novel models, techniques, protocols, algorithms, or architectures.
High-performance Computing for Science Springer
This book constitutes the refereed post-conference proceedings of the First International Conference on Innovation and Interdisciplinary Solutions for Underserved Areas, InterSol 2017, and the 6th Collogue National sur la Recherche en Informatique et ses Applications (CNRIA), held in Dakar, Senegal, in April 2017. The 15 papers presented at InterSol were selected from 76 submissions and are grouped thematically in science, energy and environment, education, innovation, and healthcare. The proceedings also contain 13 papers from the co-located 6th CNRIA (Collogue National sur la Recherche en Informatique et ses Applications) focusing on network architecture and security, software engineering, data management, and signal processing.
FCS Data Communication and Networking L4 MDPI
Distributed Computer Control Systems 1981 covers the proceedings of the Third IFAC Workshop, held in Beijing, China on August 13-17, 1981. The book focuses on the advancements of processes, technologies, and approaches employed in distributed computer control systems (DCCS). The selection first offers information on the summary report of the Third IFAC Workshop on Distributed Computer Control Systems and application of DCCS to the modernization of metal rolling mills. Discussions focus on system architecture, hot strip process, software structuring, and man-machine interface. The text then examines distributed microcomputer control systems for electrical power plants; distributed versus centralized computer control systems of industrial continuous process; and practical considerations for design and implementation of distributed digital control. The text takes a look at the architectural considerations of DCCS and its use in scientific experiments. Topics include system interaction software for the ECN, architectural schemes of DCCS, comparison of DCCS and multiprocessors, generalization of the concept of parallelism, and combined architectural realization of parallelism. The partitioning and synchronization concepts for computing dynamical systems algorithms on distributed computer control networks and scheduling of DCCS for industrial robots are also discussed. The selection is a vital reference for readers interested in distributed computer control systems.
16th International Conference, DISC 2002. Toulouse, France, October 28-30, 2002, Proceedings Elsevier

This volume spans a wide range of technical disciplines and technologies, including complex systems, biomedical engineering, electrical engineering, energy, telecommunications, mechanical engineering, civil engineering, and computer science. The papers included in this volume were presented at the International Symposium on Innovative and Interdisciplinary Applications of Advanced Technologies (IAT), held in Neum, Bosnia and Herzegovina on June 26 and 27, 2016. This highly interdisciplinary volume is devoted to various aspects and types of systems. Systems thinking is crucial for successfully building and understanding man-made, natural, and social systems.

Advanced Autonomic Networking and Communication Springer Science & Business Media

This book constitutes the refereed proceedings of the 16th International Conference on Distributed Computing, DISC 2002, held in Toulouse, France, in October 2002. The 24 revised full papers presented were carefully reviewed and selected from 76 submissions. Among the issues addressed are broadcasting, secure computation, view maintenance, communication protocols, distributed agreement, self-stabilizing algorithms, message-passing systems, dynamic networks, condition monitoring systems, shared memory computing, Byzantine processes, routing, failure detection, compare-and-swap operations, cooperative computation, and consensus algorithms.