Efficient Communication Solutions Inc

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Findex Academic Press

This book constitutes the refereed proceedings of the Second International Conference on Distributed Computing in Sensor Systems, DCOSS 2006, held in

San Francisco, California, USA, June 2006. The book presents 33 revised full papers, focusing on distributed computing issues in large-scale networked sensor systems. Coverage includes topics such as distributed algorithms and applications, programming support and middleware, data aggregation and dissemination, security, information fusion, lifetime maximization, and localization.

Smart Grid BoD – Books on Demand

Do you know that organizations and IT departments scramble to devise a good strategy for enterprise mobility? Surprisingly, only half of them have well-defined mobile strategies, confirms a recent survey of over six hundred companies by IBM. Now this is where a handbook for enterprise mobility can be instrumental for CIOs, CTOs, and IT decision-makers who look for creating robust enterprise mobile strategies and solutions. This book shares some of the practical cases related with enterprise mobility, which will be relevant and resourceful for enterprises seeking to get through their own obstacles and setbacks. It is divided into four major sections comprised of following: 1. The Mobility Revolution 2. Enterprise Mobility in the Workplace 3. The Scope of Enterprise Mobility 4. Other Aspects of Enterprise Mobility These sections further unfold into thirteen chapters. This book should also help you explore and understand the key aspects like mobile device management (MDM), BYOD, and mobile security. Precisely, it could be no less than a handbook for CIOs, CTOs, and organizations who want to enable enterprise mobility effectively.

Network World Information Gatekeepers Inc

This newest edition adds new material to all chapters, especially in mathematical propagation models and special applications and inverse techniques. It has updated environmental-

acoustic data in companion tables and core summary tables with the latest underwater acoustic propagation, noise, reverberation, and sonar performance models. Additionally

IGI Global

The book presents new results of research advancing the field and applications of modulation. The information contained herein is important for improving the performance of modern and future wireless communication systems (CS) and networks. Chapters cover such topics as amplitude modulation, orthogonal frequency-division multiplexing (OFDM) signals, electro-optic lithium niobate (LiNbO3) modulators for optical communications, radio frequency signals, and more.

Adoption and Optimization of Embedded and Real-Time Communication Systems Springer Science & Business Media

Introduction to Mom's SOS,Science of Open Systems Learning CentersNEW PARADIGMS IN EDUCATION AND ASSESSMENT

Government Executive IGI Global

This book constitutes the proceedings of the Workshops held in

conjunction with SAFECOMP 2020, 39th International Conference on Computer Safety, Reliability and Security, Lisbon, Portugal, September 2020. The 26 regular papers included in this volume were carefully reviewed and selected from 45 submissions; the book also contains one invited paper. The workshops included in this volume are: DECSoS 2020: 15th Workshop on Dependable Smart Embedded and Cyber-Physical Systems and Systems-of-Systems. DepDevOps 2020: First International Workshop on Dependable Development-Operation Continuum Methods for Dependable Cyber-Physical Systems. USDAI 2020: First International Workshop on Underpinnings for Safe Distributed AI. WAISE 2020: Third International Workshop on Artificial Intelligence Safety Engineering. The workshops were held virtually due to the COVID-19 pandemic.

Data Communication Systems and Their Performance Handbook of Green Information and Communication Systems Developments in metaheuristics continue to advance computation beyond its traditional methods. With groundwork built on multidisciplinary research findings; metaheuristics, algorithms, and optimization approaches uses memory manipulations in order to

take full advantage of strategic level problem solving. Trends in Developing Metaheuristics, Algorithms, and Optimization Approaches provides insight on the latest advances and analysis of technologies in metaheuristics computing. Offering widespread coverage on topics such as genetic algorithms, differential evolution, and ant colony optimization, this book aims to be a forum researchers, practitioners, and students who wish to learn and apply metaheuristic computing.

Trends in Developing Metaheuristics, Algorithms, and Optimization Approaches Springer Science & Business Media

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Computer Safety, Reliability, and Security. SAFECOMP 2020 Workshops IGI Global

"This book focuses on wireless sensor networks and their operation, covering topics including routing, energy efficiency and management"--

Proceedings [of The] ... Annual Convention IGI Global

This book gives a comprehensive guide on the fundamental concepts, applications, algorithms, protocols, new trends and challenges, and research

results in the area of Green Information and Communications Systems. It is an invaluable resource giving knowledge on the core and specialized issues in the field, making it highly suitable for both the new and experienced researcher in this area. Key Features: Core research topics of green information and communication systems are covered from a network design perspective, giving both theoretical and practical perspectives Provides a unified covering of otherwise disperse selected topics on green computing, information, communication and networking Includes a set of downloadable PowerPoint slides and glossary of terms for each chapter A ‘whose-who’ of international contributors Extensive bibliography for enhancing further knowledge Coverage includes: Smart grid technologies and communications Spectrum management Cognitive and autonomous radio systems Computing and communication architectures Data centres Distributed networking Cloud computing Next generation wireless communication systems 4G access networking Optical core networks Cooperation transmission Security and privacy Core research topics of green information and communication systems are covered from a network design

perspective, giving both a theoretical and practical perspective A ‘whose-who’ of international contributors Extensive bibliography for enhancing further knowledge

Optical Fiber Telecommunications VIB

Springer

A detailed review of underwater channel characteristics, Underwater Acoustic Sensor Networks investigates the fundamental aspects of underwater communication. Prominent researchers from around the world consider contemporary challenges in the development of underwater acoustic sensor networks (UW-ASNs) and introduce a cross-layer approach for effective integration of all communication functionalities. Discussing architectures for two- and three-dimensional sensor networks, this authoritative resource clearly delineates the main differences between terrestrial and underwater sensor networks—covering the wide range of topics related to UW-ASNs. It examines efficient distributed routing algorithms for delay-insensitive and delay-sensitive applications and introduces a realistic acoustic model characterized by channel utilization efficiency that enables proper setting of the optimal packet size for underwater communication. It also: Provides efficient sensor communication protocols for the underwater environment Addresses the topology control problem for sparse and dense 3D networks Presents a novel distributed MAC protocol

that incorporates a unique closed-loop distributed algorithm for setting the optimal transmit power and code length The book includes coverage of routing, fault tolerance, time synchronization, optimal clustering, medium access control, software, hardware, and channel modeling. Exploring the need to design an energy-efficient cross-layer protocol suite, this resource provides the understanding required to achieve high-performance channel access, routing, event transport reliability, and data flow control with underwater acoustic sensors.

Advances in Communication Systems and Electrical Engineering

Partridge Publishing

Intelligent Vehicular Network and Communications: Fundamentals, Architectures and Solutions begins with discussions on how the transportation system has transformed into today's Intelligent Transportation System (ITS). It explores the design goals, challenges, and frameworks for modeling an ITS network, discussing vehicular network model technologies, mobility management architectures, and routing mechanisms and protocols. It looks at the Internet of Vehicles, the vehicular cloud, and vehicular network security and privacy issues. The book investigates cooperative vehicular systems, a promising solution for addressing current and future traffic safety needs, also exploring cooperative cognitive intelligence, with special attention to spectral efficiency, spectral scarcity, and high mobility. In addition, users will find a thorough examination of experimental work in such areas as Controller Area Network protocol and working function of On Board Unit, as

well as working principles of roadside unit and other infrastructural nodes. Finally, the book examines big data in vehicular networks, exploring various business models, application scenarios, and real-time analytics, concluding with a look at autonomous vehicles. Proposes cooperative, cognitive, intelligent vehicular networks Examines how intelligent transportation systems make more efficient transportation in urban environments Outlines next generation vehicular networks technology

Handbook of Green Information and Communication Systems Elsevier

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

Telecom Mergers & Acquisitions Monthly Newsletter 04-10 IGI Global

This volume contains contributions from participants in the 2007 International Multiconference of Engineers and Computer Scientists. It covers a variety of subjects in the frontiers of intelligent systems and computer engineering and their industrial applications. The book reflects the tremendous advances in communication systems and electrical engineering. The book provides an excellent

reference work for researchers and graduate students working in the field.

Signal Processing for Wireless Communication Systems Springer

The research papers in this volume describe recent, original developments in techniques, tools and applications in the area of communication system performance. Involved in the project are researchers from the world's leading universities, research institutes and companies.

Broadband Wireless Access Networks for 4G: Theory, Application, and Experimentation CRC Press

This resource describes the thought behind a smart-grid system and the move away from a centralized, producer-controlled network to one that is less centralized and more consumer-interactive.

Network World Springer Nature

"This encyclopedia of virtual communities and technologies provides a much needed integrated overview of all the critical concepts, technologies and issues in the area of virtual communities"--Provided by publisher.

Scientific and Technical Aerospace Reports Elsevier

With the increased functionality demand for mobile speed and access in our everyday lives, broadband wireless networks have emerged as the solution in providing high data rate communications systems to meet these growing needs. Broadband Wireless Access Networks for 4G: Theory, Application, and Experimentation presents

the latest trends and research on mobile ad hoc networks, vehicular ad hoc networks, and routing algorithms which occur within various mobile networks. This publication smartly combines knowledge and experience from enthusiastic scholars and expert researchers in the area of wideband and broadband wireless networks. Students, professors, researchers, and other professionals in the field will benefit from this book's practical applications and relevant studies.

Modulation in Electronics and Telecommunications Information Gatekeepers Inc

Adoption and Optimization of Embedded and Real-Time Communication Systems presents innovative research on the integration of embedded systems, real-time systems and the developments towards multimedia technology. This book is essential for researchers, practitioners, scientists, and IT professionals interested in expanding their knowledge of this interdisciplinary field.

Distributed Computing in Sensor Systems John Wiley & Sons

This research monograph deals with fast stochastic simulation based on im portance sampling (IS) principles and some of its applications. It is in large part devoted to an adaptive form of IS that has proved to be effective in appli cations that involve the estimation of probabilities of rare events. Rare events are often encountered in scientific and engineering processes. Their

charac terization is especially important as their occurrence can have catastrophic consequences of varying proportions. Examples range from fracture due to material fatigue in engineering structures to exceedance of dangerous levels during river water floods to false target declarations in radar systems. Fast simulation using IS is essentially a forced Monte Carlo procedure designed to hasten the occurrence of rare events. Development of this simu lation method of analysis of scientific phenomena is usually attributed to the mathematician von Neumann, and others. Since its inception, MC simula tion has found a wide range of employment, from statistical thermodynamics in disordered systems to the analysis and design of engineering structures characterized by high complexity. Indeed, whenever an engineering problem is analytically intractable (which is often the case) and a solution by nu merical techniques prohibitively expensive computationally, a last resort to determine the input-output characteristics of, or states within, a system is to carry out a simulation.