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Advanced Technologies and Applications

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JOHN R. VACCA



Handbook Of Sensor Networking Advanced Technologies And Applications

Rosina Ehmman



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Handbook of Sensor Networking John R. Vacca, 2015-01-13 This handbook provides a complete professional reference and practitioner's guide to today's advanced sensor networking technologies. It focuses on both established and recent sensor networking theory, technology, and practice. Specialists at the forefront of the field address immediate and long-term challenges and explore practical solutions to a wide range of sensor networking issues. The book covers the hardware of sensor networks, wireless communication protocols, sensor networks software and architectures, wireless information networks, data manipulation, signal processing, localization, and object tracking through sensor networks. **Handbook of**

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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. **Photonics In Space: Advanced Photonic Devices And Systems** Caterina Ciminelli, Mario Nicola

Armenise, Francesco Dell'olio, 2016-07-21 The book focuses on photonic devices and systems for space applications and critically reviews the most promising research advances in the field of photonic technologies which may have a significant impact on the performance of space systems. Photonics is emerging as a crucial enabling technology having the potential of enhancing many space systems, including the links for on-board data handling, the high-resolution measurement systems, and

the processing units The book discusses this subject with a special emphasis on the new guided wave devices with high performance low cost and size Most of the scientific content of the book is novel and it is devoted to academic and industrial researchers working on the field **Online Terrorist Propaganda, Recruitment, and Radicalization** John R.

Vacca,2019-07-30 Online Terrorist Propaganda Recruitment and Radicalization is most complete treatment of the rapidly growing phenomenon of how terrorists online presence is utilized for terrorism funding communication and recruitment purposes The book offers an in depth coverage of the history and development of online footprints to target new converts broaden their messaging and increase their influence Chapters present the emergence of various groups the advancement of terrorist groups online presences their utilization of video chat room and social media and the current capability for propaganda training and recruitment With contributions from leading experts in the field including practitioners and terrorism researchers the coverage moves from general factors to specific groups practices as relate to Islamic State of Iraq and the Levant ISIL and numerous other groups Chapters also examine the lone wolf phenomenon as a part of the disturbing trend of self radicalization A functional real world approach is used regarding the classification of the means and methods by which an online presence is often utilized to promote and support acts of terrorism Online Terrorist Propaganda Recruitment and Radicalization examines practical solutions in identifying the threat posed by terrorist propaganda and U S government efforts to counter it with a particular focus on ISIS the Dark Web national and international measures to identify thwart and prosecute terrorist activities online As such it will be an invaluable resources for intelligence professionals terrorism and counterterrorism professionals those researching terrorism funding and policy makers looking to restrict the spread of terrorism propaganda online **Nanorods and Nanocomposites** Morteza Sasani Ghamsari,Soumen Dhara,2020-03-11 The

book Nanorods and Nanocomposites aims to provide the reader with an overview of the recent advances made on the synthesis of nanorods and nanocomposites and their emerging applications for a better lifestyle The nanorods are a surprising gift to materials science from the research field of nanoscale materials Nanorods promise to serve as a building block of the next generation electronic and optoelectronic devices Nanocomposite materials are multiphase solid materials that have one organic or inorganic nanoarchitected compound with various nanostructures such as nanoparticles nanowires nanorods and nano films etc or with multiphase solid materials metals oxides polymers and carbon Due to the progressive physical chemical electrical thermal optical electrochemical and catalytic properties of nanocomposites they exhibit multi functional characteristics in a variety of engineering applications such as piezoelectrics thermoresistors sensors energy related technologies water purification catalysts electro photonics and so on Despite the wide variety of applications due to their unique nanostructures the fabrication of nanocomposites and the realization of their applications in different fields remains a challenging task The focus of this book is to provide a platform for presentation of the latest knowledge and recent progress in synthesis functionalization and applications of nanocomposite materials It is expected that this book

presents the most attractive and versatile technological developments in the field of nanorods and nanocomposite materials and their applications that will provide a better understanding of the currently ongoing research in related fields Cloud Computing Security John R. Vacca, 2016-09-19 This handbook offers a comprehensive overview of cloud computing security technology and implementation while exploring practical solutions to a wide range of cloud computing security issues With more organizations using cloud computing and cloud providers for data operations proper security in these and other potentially vulnerable areas have become a priority for organizations of all sizes across the globe Research efforts from both academia and industry in all security aspects related to cloud computing are gathered within one reference guide

Developments in Information & Knowledge Management for Business Applications Natalia Kryvinska, Michal Greguš, 2022-03-29 This book discusses incentives for information management usage of information for existing practices to become more efficient the acceleration of executive learning and an evaluation of the information management impact on an organization In today's COVID influenced volatile world companies face a variety of challenges And the most crucial of them are high levels of uncertainty and risk Therefore companies are constantly under pressure to provide sustainable solutions Accordingly previously gathered knowledge and information can be extremely helpful for this purpose Hence this fourth book of our subseries continues to accentuate on different approaches which point to the importance of continuous progress in structural management for sustainable growth It highlights the permanent gain and usage of information We would be pleased if the book can stimulate further research on this subject matter **Cloud Computing and Big Data:**

Technologies, Applications and Security Mostapha Zbakh, Mohammed Essaaidi, Pierre Manneback, Chunming Rong, 2018-07-27 This book addresses topics related to cloud and Big Data technologies architecture and applications including distributed computing and data centers cloud infrastructure and security and end user services The majority of the book is devoted to the security aspects of cloud computing and Big Data Cloud computing which can be seen as any subscription based or pay per use service that extends the Internet's existing capabilities has gained considerable attention from both academia and the IT industry as a new infrastructure requiring smaller investments in hardware platforms staff training or licensing software tools It is a new paradigm that has ushered in a revolution in both data storage and computation In parallel to this progress Big Data technologies which rely heavily on cloud computing platforms for both data storage and processing have been developed and deployed at breathtaking speed They are among the most frequently used technologies for developing applications and services in many fields such as the web health and energy Accordingly cloud computing and Big Data technologies are two of the most central current and future research mainstreams They involve and impact a host of fields including business scientific research and public and private administration Gathering extended versions of the best papers presented at the Third International Conference on Cloud Computing Technologies and Applications CloudTech 17 this book offers a valuable resource for all Information System managers researchers students

developers and policymakers involved in the technological and application aspects of cloud computing and Big Data

Smart Cities Houbing Song, Ravi Srinivasan, Tamim Sookoor, Sabina Jeschke, 2017-06-21 Provides the foundations and principles needed for addressing the various challenges of developing smart cities Smart cities are emerging as a priority for research and development across the world They open up significant opportunities in several areas such as economic growth health wellness energy efficiency and transportation to promote the sustainable development of cities This book provides the basics of smart cities and it examines the possible future trends of this technology Smart Cities Foundations Principles and Applications provides a systems science perspective in presenting the foundations and principles that span multiple disciplines for the development of smart cities Divided into three parts foundations principles and applications Smart Cities addresses the various challenges and opportunities of creating smart cities and all that they have to offer It also covers smart city theory modeling and simulation and examines case studies of existing smart cities from all around the world In addition the book Addresses how to develop a smart city and how to present the state of the art and practice of them all over the world Focuses on the foundations and principles needed for advancing the science engineering and technology of smart cities including system design system verification real time control and adaptation Internet of Things and test beds Covers applications of smart cities as they relate to smart transportation connected vehicle CV and Intelligent Transportation Systems ITS for improved mobility safety and environmental protection Smart Cities Foundations Principles and Applications is a welcome reference for the many researchers and professionals working on the development of smart cities and smart city related industries

Data-Centric Business and Applications Peter Štarchoň, Solomiia Fedushko, Katarína Gubíniová, 2024-08-07 This book explores the profound impact of data on company operations decision making and application development The book delves into sophisticated information and knowledge management principles including data governance analytics knowledge discovery and artificial intelligence The subject encompasses data centric business models emerging technology and ethical considerations Each chapter is authored by an expert in the area who offers important insights into the influence of data on the advancement of business and application development The material herein is appropriate for a diverse audience encompassing academics practitioners business professionals and researchers The editors sincerely appreciate the writers for their significant contributions which have been crucial in developing an essential resource for studying and advancing data centric businesses and applications

Security in the Private Cloud John R. Vacca, 2016-10-14 This comprehensive handbook serves as a professional reference and practitioner s guide to today s most complete and concise view of private cloud security It explores practical solutions to a wide range of private cloud computing security issues The knowledge imparted will enable readers to determine whether the private cloud security solution is appropriate for their organization from a business and technical perspective to select the appropriate cloud security model and to plan and implement a cloud security adoption and migration strategy

Multimedia Services and

Applications in Mission Critical Communication Systems Al-Begain, Khalid, Ali, Ashraf, 2017-02-08 In emergency and disaster scenarios it is vital to have a stable and effective infrastructure for relaying communication to the public With the advent of new technologies more options are available for enhancing communication systems Multimedia Services and Applications in Mission Critical Communication Systems is a comprehensive source of academic research on the challenges and solutions in creating stable mission critical systems and examines methods to improve system architecture and resources Highlighting innovative perspectives on topics such as quality of service performance metrics and intrusion detection this book is ideally designed for practitioners professionals researchers graduate students and academics interested in public safety communication systems *Mathematics and Logics in Computer Science* Atul Chaturvedi, Bimal Kumar Roy, Boaz Tsaban, 2025-07-25 This book presents high quality research papers presented at International Conference on Mathematics and Logics in Computer Science ICMLCS 2024 held at Allenhouse Institute of Technology Kanpur India during August 30 31 2024 The book covers recent research in data science network security theory of computing network security cloud computing coding theory linear algebra and its applications in machine learning artificial intelligence block chain deep learning graph theory cryptography cyber security internet of things quantum computing and steganography From Imaging to Inflammation: Exploring Neurodegenerative Mechanisms through Advanced Techniques Ali Keshavarzian, Hossein Saleki, Maryam Amin, 2025-04-07 Chapters Chapter 1 Advances in Neuroimaging Techniques Applications of fMRI PET and EEG in Understanding Brain Dynamics Chapter 2 Neuroinflammation Mechanisms and Therapeutic Targets in Neurodegenerative Diseases Chapter 3 Multimodal Imaging Approaches in Neuroscience Chapter 4 Biomarkers of Neuroinflammation in Neurodegenerative Diseases Interference Mitigation and Energy Management in 5G Heterogeneous Cellular Networks Yang, Chungang, Li, Jiandong, 2016-11-22 In recent years wireless networks have become more ubiquitous and integrated into everyday life As such it is increasingly imperative to research new methods to boost cost effectiveness for spectrum and energy efficiency Interference Mitigation and Energy Management in 5G Heterogeneous Cellular Networks is a pivotal reference source for the latest research on emerging network architectures and mitigation technology to enhance cellular network performance and dependency Featuring extensive coverage across a range of relevant perspectives and topics such as interference alignment resource allocation and high speed mobile environments this book is ideally designed for engineers professionals practitioners upper level students and academics seeking current research on interference and energy management for 5G heterogeneous cellular networks **Resource Allocation in Next-Generation Broadband Wireless Access Networks** Singhal, Chetna, De, Swades, 2017-02-14 With the growing popularity of wireless networks in recent years the need to increase network capacity and efficiency has become more prominent in society This has led to the development and implementation of heterogeneous networks Resource Allocation in Next Generation Broadband Wireless Access Networks is a comprehensive reference source for the latest scholarly research

on upcoming 5G technologies for next generation mobile networks examining the various features solutions and challenges associated with such advances Highlighting relevant coverage across topics such as energy efficiency user support and adaptive multimedia services this book is ideally designed for academics professionals graduate students and professionals interested in novel research for wireless innovations **City Competitiveness and Improving Urban Subsystems: Technologies and Applications** Bulu, Melih, 2011-10-31

Cities are becoming the wealth producing centers of national economies Increasing the operational efficiency of the city will bring a competitive edge to the whole system Yet many city subsystems cannot work together creating significant problems and inefficiencies City Competitiveness and Improving Urban Subsystems Technologies and Applications uses information science perspectives to improve working subsystems in transportation sewage electricity water communication education health governance and infrastructure since their efficient and synchronized operation is vital for a competitive city This pioneering approach will interest researchers professionals and policymakers in urban economy regional planning and information science disciplines who wish to improve the competitiveness of their cities Springer Handbook of Automation Shimon Y. Nof, 2023-06-16

This handbook incorporates new developments in automation It also presents a widespread and well structured conglomeration of new emerging application areas such as medical systems and health transportation security and maintenance service construction and retail as well as production or logistics The handbook is not only an ideal resource for automation experts but also for people new to this expanding field *CRC Handbook of Modern Telecommunications* Patricia A. Morreale, Kornel Terplan, 2018-09-03 Addressing the most dynamic areas of the ever changing telecommunications landscape the second edition of the bestselling CRC Handbook of Modern Telecommunications once again brings together the top minds and industry pioneers in wireless communication networks protocols and devices In addition to new discussions of radio frequency identification RFID and wireless sensor networks including cognitive radio networks this important reference systematically addresses network management and administration as well as network organization and governance topics that have evolved since the development of the first edition Extensively updated and expanded this second edition provides new information on Wireless sensor networks RFID Architectures Intelligent Support Systems Service delivery integration with the Internet Information life cycle and service level management Management of emerging technologies Web performance management Business intelligence and analytics The text details the latest in voice communication techniques advanced communication concepts network organization governance traffic management and emerging trends This comprehensive handbook provides telecommunications professionals across all fields with ready access to the knowledge they require and arms them with the understanding of the role that evolving technologies will play in the development of the telecommunications systems of tomorrow

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