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KIM HESS

Data-Centric Business and Applications IGI Global

This book gathers the best papers presented at the International Conference on Data Sciences, Security and Applications (ICDSSA 2019), organized by Bharati Vidyapeeth's College of Engineering, New Delhi, India, on 7-8 March 2019. The respective contributions present original research work, essential information, techniques and applications in the fields of data mining, artificial intelligence and computational intelligence. They also discuss machine learning in business intelligence and big data analytics, soft computing, security, cloud computing and the latest trends.

Applications of Computational Science in Artificial Intelligence

Walter de Gruyter GmbH & Co KG

This book discusses processes and procedures in information/data processing and management. The global market is becoming more and more complex with an increased availability of data and information, and as a result doing business with information is becoming more popular, with a significant impact on modern society immensely. This means that there is a growing need for a common understanding of how to create, access, use and manage business information. As such this book explores different aspects of data and information processing, including information generation, representation, structuring, organization, storage, retrieval, navigation, human factors in information systems, and the use of information. It also analyzes the challenges and opportunities of doing business with information, and presents various perspectives on business information managing.

A Text Book Of Professional Communication SK Kataria and

sons

Master the fundamentals of digital communications systems with this hands-on textbook, blending theory and real-world practice.

Engineering Mathematics CRC Press

This book is written in a simple and easy-to-understand language to explain the fundamental concepts of the subject. The book presents the subject of EIPC in a comprehensive manner to the students at undergraduate level. This book not only covers the entire scope of the subject but also explains the philosophy of the subject. This makes the understanding of the subject more clear and interesting. The book will be very useful not only to the students but also to the faculty members.

Digital Signal Processing KHANNA PUBLISHING HOUSE

Explore Modern Communications and Understand Principles of Operations, Appropriate Technologies, and Elements of Design of Communication Systems Modern society requires a different set of communication systems than has any previous generation. To maintain and improve the contemporary communication systems that meet ever-changing requirements, engineers need to know how to recognize and solve cardinal problems. In *Essentials of Modern Communications*, readers will learn how modern communication has expanded and will discover where it is likely to go in the future. By discussing the fundamental principles, methods, and techniques used in various communication systems, this book helps engineers assess, troubleshoot, and fix problems that are likely to occur. In this reference, readers will learn about topics like: How communication systems respond in time and frequency domains Principles of analog and digital modulations Application of spectral analysis to modern communication systems based on the Fourier series and Fourier transform Specific examples and problems, with discussions around their optimal solutions, limitations, and applications

Approaches to solving the concrete engineering problems of modern communications based on critical, logical, creative, and out-of-box thinking For readers looking for a resource on the fundamentals of modern communications and the possible issues they face, *Essentials of Modern Communications* is instrumental in educating on real-life problems that engineering students and professionals are likely to encounter.

Microwave Engineering Laxmi Publications

A comprehensive introduction to the fundamentals of design and applications of wireless communications *Wireless Communications Systems* starts by explaining the fundamentals needed to understand, design, and deploy wireless communications systems. The author, a noted expert on the topic, explores the basic concepts of signals, modulation, antennas, and propagation with a MATLAB emphasis. The book emphasizes practical applications and concepts needed by wireless engineers. The author introduces applications of wireless communications and includes information on satellite communications, radio frequency identification, and offers an overview with practical insights into the topic of multiple input multiple output (MIMO). The book also explains the security and health effects of wireless systems concerns on users and designers. Designed as a practical resource, the text contains a range of examples and pictures that illustrate many different aspects of wireless technology. The book relies on MATLAB for most of the computations and graphics. This important text: Reviews the basic information needed to understand and design wireless communications systems Covers topics such as MIMO systems, adaptive antennas, direction finding, wireless security, internet of things (IoT), radio frequency identification (RFID), and software defined radio (SDR) Provides examples with a MATLAB emphasis to aid comprehension Includes an online solutions

manual and video lectures on selected topics Written for students of engineering and physics and practicing engineers and scientists, *Wireless Communications Systems* covers the fundamentals of wireless engineering in a clear and concise manner and contains many illustrative examples.

RELATIVISTIC MECHANICS Sarup & Sons

This Book Is Aimed At Providing An Introduction To The Basic Models Of Computability To The Undergraduate Students. This Book Is Devoted To Finite Automata And Their Properties. Pushdown Automata Provides A Class Of Models And Enables The Analysis Of Context-Free Languages. Turing Machines Have Been Introduced And The Book Discusses Computability And Decidability. A Number Of Problems With Solutions Have Been Provided For Each Chapter. A Lot Of Exercises Have Been Given With Hints/Answers To Most Of These Tutorial Problems.

Advances in Data Sciences, Security and Applications S. Chand Publishing

Robotics and autonomous systems can aid disabled individuals in daily living or make a workplace more productive, but these tools are only as effective as the technology behind them. Robotic systems must be able to accurately identify and act upon elements in their environment to be effective in performing their duties. *Innovative Research in Attention Modeling and Computer Vision Applications* explores the latest research in image processing and pattern recognition for use in robotic real-time cryptography and surveillance applications. This book provides researchers, students, academicians, software designers, and application developers with next-generation insight into the use of computer vision technologies in a variety of industries and endeavors. This premier reference work includes chapters on topics ranging from biometric and facial recognition technologies, to digital image and video watermarking, among many others.

Metamaterial Technology and Intelligent Metasurfaces for Wireless Communication Systems Springer Nature

Comprehensive, cross-disciplinary coverage of Smart Grid issues from global expert researchers and practitioners. This definitive reference meets the need for a large scale, high quality work reference in Smart Grid engineering which is pivotal in the development of a low-carbon energy infrastructure. Including a total of 83 articles across 3 volumes The Smart Grid Handbook is organized in to 6 sections: Vision and Drivers, Transmission,

Distribution, Smart Meters and Customers, Information and Communications Technology, and Socio-Economic Issues. Key features: Written by a team representing smart grid R&D, technology deployment, standards, industry practice, and socio-economic aspects. Vision and Drivers covers the vision, definitions, evolution, and global development of the smart grid as well as new technologies and standards. The Transmission section discusses industry practice, operational experience, standards, cyber security, and grid codes. The Distribution section introduces distribution systems and the system configurations in different countries and different load areas served by the grid. The Smart Meters and Customers section assesses how smart meters enable the customers to interact with the power grid. Socio-economic issues and information and communications technology requirements are covered in dedicated articles. The Smart Grid Handbook will meet the need for a high quality reference work to support advanced study and research in the field of electrical power generation, transmission and distribution. It will be an essential reference for regulators and government officials, testing laboratories and certification organizations, and engineers and researchers in Smart Grid-related industries.

Object-oriented C++ Programming Springer

Dr. APJ. Abdul Kalam Technical University (Formerly Known as Uttar Pradesh Technical University) conducts a state level entrance examination called UPSEE also known as Uttar Pradesh State Entrance Exam for both UG and PG courses, each year it shortlist students as per their rankings and accordingly allocates them colleges. In order to get admissions in UPTU Engineering Stream it is mandatory to have good ranking in the written examination. The present edition of "15 YEARS' SOLVED PAPERS UPTU/UPSEE" provides the complete package of Physics, Chemistry and Mathematics Questions which gives the exact idea of the examination pattern and the answer writing skills in the paper. Authentic and Complete Solutions are given of each question of 15 Years' [2005-2019] Papers in lucid language that clears all the concepts, doubts of the students and easily understood by the candidates. Ample amount of questions are provided for thorough practice so that candidates will be able to qualify the exam with good rankings. Preparation from this book help students to step ahead towards their goal. TABLE OF CONTENT Solved Papers 2005-2019.

Analog Digital Electronics(Uptu) Laxmi Publications, Ltd.

This book presents best selected research papers presented at the First International Conference on Integrated Intelligence Enable Networks and Computing (IIENC 2020), held from May 25 to May 27, 2020, at the Institute of Technology, Gopeshwar, India (Government Institute of Uttarakhand Government and affiliated to Uttarakhand Technical University). The book includes papers in the field of intelligent computing. The book covers the areas of machine learning and robotics, signal processing and Internet of things, big data and renewable energy sources.

Impact of Digital Transformation on Security Policies and Standards Springer Nature

Printed antennas have become an integral part of next-generation wireless communications and have been found to be commonly used to improve system capacity, data rate, reliability, etc. This book covers theory, design techniques, and the chronological regression of the printed antennas for various applications. This book will provide readers with the basic conceptual knowledge about antennas along with advanced techniques for antenna design. It covers a variety of analytical techniques and their CAD applications and discusses new applications of printed antenna technology such as sensing. The authors also present special reconfigurable antennas such as ME dipole, polarization, feeding, and DGS. The book will be useful to students as an introduction to design and applications of antennas. Additionally, experienced researchers in this field will find this book a ready reference and benefit from the techniques of research in printed antennas included in this book. Following are some of the salient features of this book: Covers a variety of analytical techniques and their CAD applications Discusses new applications of printed antenna technology such as sensing Examines the state of design techniques of printed antenna Presents special reconfigurable antennas such as ME dipole, polarization, feeding, and DGS **Introduction to Satellite Communication** Springer Nature Metamaterials and metasurfaces are enabling modern 5G/6G wireless systems to achieve high performance while maintaining efficient costs and sizes. In the wireless industry, transmission lines play a fundamental role in the development of guided wave elements, antennas, radio frequency identification (RFID) tags, and sensors whose efficiency may be enhanced using metamaterials. Additionally, a metamaterial absorber can solve

the bandwidth issue of the internet of things (IoT) backhaul network. Metasurfaces are also potential candidates for implementing reconfigurable intelligent surfaces (RISs) due to their special wireless communication capabilities. *Metamaterial Technology and Intelligent Metasurfaces for Wireless Communication Systems* compiles and promotes metamaterials research and sheds light on how metamaterials and metasurfaces will be used in the 5G era and beyond. Covering topics such as active and passive metamaterials, metasurfaces-inspired antennas, and metamaterials for RFID and sensors, this book is ideal for researchers, students, academicians, and professionals.

Essentials of Modern Communications IGI Global

The book covers all the fundamentals of satellites, ground control systems, and earth stations, considering the design and operation of each major segment. You gain a practical understanding of the basic construction and usage of commercial satellite networks. It covers parts of a satellite system function, how various components interact, which role each component plays, and which factors are the most critical to success."

Krishna's Industrial Economics & Principles of Management IGI Global

This book uses a practical approach in the application of theoretical concepts to digital communications in the design of software defined radio modems. This book discusses the design, implementation and performance verification of waveforms and algorithms appropriate for digital data modulation and demodulation in modern communication systems. Using a building-block approach, the author provides an introductory to the advanced understanding of acquisition and data detection using source and executable simulation code to validate the communication system performance with respect to theory and design specifications. The author focuses on theoretical analysis, algorithm design, firmware and software designs and subsystem and system testing. This book treats system designs with a variety of channel characteristics from very low to optical frequencies. This book offers system analysis and subsystem implementation options for acquisition and data detection appropriate to the channel conditions and system specifications, and provides test methods for demonstrating system performance. This book also: Outlines fundamental system requirements and related analysis that must be established prior

to a detailed subsystem design. Includes many examples that highlight various analytical solutions and case studies that characterize various system performance measures. Discusses various aspects of atmospheric propagation using the spherical wave model. Examines the 4/3 effective earth radius model. Examines ionospheric propagation and uses the Rayleigh fading channel to evaluate link performance using several robust waveform modulations. Contains end-of-chapter problems, allowing the reader to further engage with the text. *Digital Communications with Emphasis on Data Modems* is a great resource for communication-system and digital signal processing engineers and students looking for in-depth theory as well as practical implementations.

Cybersecurity in Emerging Digital Era Laxmi Publications, Ltd.

Computational science, in collaboration with engineering, acts as a bridge between hypothesis and experimentation. It is essential to use computational methods and their applications in order to automate processes as many major industries rely on advanced modeling and simulation. Computational science is inherently interdisciplinary and can be used to identify and evaluate complicated systems, foresee their performance, and enhance procedures and strategies. Applications of Computational Science in Artificial Intelligence delivers technological solutions to improve smart technologies architecture, healthcare, and environmental sustainability. It also provides background on key aspects such as computational solutions, computation framework, smart prediction, and healthcare solutions. Covering a range of topics such as high-performance computing and software infrastructure, this reference work is ideal for software engineers, practitioners, researchers, scholars, academicians, instructors, and students.

Smart Grid Handbook, 3 Volume Set John Wiley & Sons

This book constitutes selected and revised papers from the First International Conference on Cybersecurity in Emerging Digital Era, ICCEDI 2020, held in Greater Noida, India, in October 2020. Due to the COVID-19 pandemic the conference was held online. The 9 full papers and 2 short papers presented in this volume were thoroughly reviewed and selected from 193 submissions. The papers are organized in topical sections on cyber security issues and challenges in emerging digital era; security resilience in contemporary applications.

Principles of Digital Communication SK Kataria and sons

The main objective of this book is to introduce cyber security using modern technologies such as Artificial Intelligence, Quantum Cryptography, and Blockchain. This book provides in-depth coverage of important concepts related to cyber security. Beginning with an introduction to Quantum Computing, Post-Quantum Digital Signatures, and Artificial Intelligence for cyber security of modern networks and covering various cyber-attacks and the defense measures, strategies, and techniques that need to be followed to combat them, this book goes on to explore several crucial topics, such as security of advanced metering infrastructure in smart grids, key management protocols, network forensics, intrusion detection using machine learning, cloud computing security risk assessment models and frameworks, cyber-physical energy systems security, a biometric random key generator using deep neural network and encrypted network traffic classification. In addition, this book provides new techniques to handle modern threats with more intelligence. It also includes some modern techniques for cyber security, such as blockchain for modern security, quantum cryptography, and forensic tools. Also, it provides a comprehensive survey of cutting-edge research on the cyber security of modern networks, giving the reader a general overview of the field. It also provides interdisciplinary solutions to protect modern networks from any type of attack or manipulation. The new protocols discussed in this book thoroughly examine the constraints of networks, including computation, communication, and storage cost constraints, and verifies the protocols both theoretically and experimentally. Written in a clear and comprehensive manner, this book would prove extremely helpful to readers. This unique and comprehensive solution for the cyber security of modern networks will greatly benefit researchers, graduate students, and engineers in the fields of cryptography and network security.

Electrical Power Quality John Wiley & Sons

There is an almost infinite number of ways in which the Internet of Things (IoT) might improve people's lives, and now widespread adoption of IoT applications is bringing about profound changes in how we live and work. Organizations in both the commercial and governmental sectors may better manage their assets, enhance their performance, and experiment with new business models advent of the Internet of Things. The Internet of Things has the ability to aid an ageing population, increase energy efficiency,

and streamline all forms of transportation due to its central role in connecting gadgets and serving as a general facilitator of the hyper-connected society. Issues of identity, trust, privacy, security, and semantic interoperability are crucial to the success of the Internet of Things, and their development in an acceptable legal context and atmosphere of trust is essential. This book will introduce you to the current status of Internet of Things application development and research and will give you an idea of where the field stands. Manufacturing, transportation, health,

building automation, agriculture, and the environment are some of the many fields that stand to benefit from the sensing, communications, and computing infused with ambient intelligence at the core of IoT, IIoT, and Industry 4.0 technologies. In addition to revolutionizing the business world, the new ambient intelligence computer clusters are projected to improve people's health, safeguard the planet, and facilitate more responsible consumption. This book takes a multidisciplinary approach to elucidating the knotty problem of recent scientific and

technological advances that have relied heavily on AI.

[Innovative Research in Attention Modeling and Computer Vision Applications](#) IGI Global

Introduction of Information Security and security and cyber law covers the fundamentals aspect of system, Information system, Distributed Information system, Cryptography, Network Security e.t.c.. It is incredibly robust, portable & adaptable. This book coverage of Model paper, Question Bank and Examination Question Paper etc.