

Routing Protocol Matlab

Signals and Systems Laboratory with MATLAB Alex Palamides, Anastasia Veloni. 2010-08-13 With its exhaustive coverage of relevant theory, *Signals and Systems Laboratory with MATLAB* is a powerful resource that provides simple, detailed instructions on how to apply computer methods to signals and systems analysis. Written for laboratory work in a course on signals and systems, this book presents a corresponding MATLAB implementation for

Mobile Computing and Sustainable Informatics Subarna Shakya, Klimis Ntalianis, Khaled A. Kamel. 2022-07-15 This book gathers selected high-quality research papers presented at International Conference on Mobile Computing and Sustainable Informatics (ICMCSI 2022) organized by Pulchowk Campus, Institute of Engineering, Tribhuvan University, Nepal, during 27–28 January 2022. The book discusses recent developments in mobile communication technologies ranging from mobile edge computing devices, to personalized, embedded and sustainable applications. The book covers vital topics like mobile networks, computing models, algorithms, sustainable models and advanced informatics that supports the symbiosis of mobile computing and sustainable informatics.

Recent Developments in Electronics and Communication Systems KVS Ramachandra Murthy, S. Kumar, M. Kumar Singh. 2023-01-31 Often, no single field or expert has all the information necessary to solve complex problems, and this is no less true in the fields of electronics and communications systems. Transdisciplinary engineering solutions can address issues arising when a solution is not evident during the initial development stages in the multidisciplinary area. This book presents the proceedings of RDECS-2022, the 1st international conference on Recent Developments in Electronics and Communication Systems, held on 22 and 23 July 2022 at Aditya Engineering College, Surampalem, India. The primary goal of RDECS-2022 was to challenge existing ideas and encourage interaction between academia and industry to promote the sort of collaborative activities involving scientists, engineers, professionals, researchers, and students that play a major role in almost all fields of scientific growth. The conference also aimed to provide an arena for showcasing advancements and research endeavors being undertaken in all parts of the world. A large number of technical papers with rich content, describing ground-breaking research from participants from various institutes, were submitted for presentation at the conference. This book presents 108 of these papers, which cover a wide range of topics ranging from cloud computing to disease forecasting and from weather reporting to the detection of fake news. Offering a fascinating overview of recent research and developments in electronics and communications systems, the book will be of interest to all those working in the field.

IoT and Analytics for Sensor Networks Padmalaya Nayak, Souvik Pal, Sheng-Lung Peng. 2021-09-11 This book includes high-quality research papers presented at the 1st International Conference on Wireless Sensor Networks, Ubiquitous Computing and Applications (ICWSNUCA, 2021), which is held at Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, India, during 26–27 February, 2021. This volume focuses on the applications, use-cases, architectures, deployments, and recent advances of wireless sensor networks as well as ubiquitous computing. Different research topics are illustrated in this book, like wireless sensor networks for the Internet of Things; IoT applications for eHealth; smart cities; architectures for WSNs and IoT, WSNs hardware and new devices; low-power wireless technologies; wireless ad hoc sensor networks; routing and data transfer in WSNs; multicast communication in WSNs; security management in WSNs and in IoT systems; and power consumption optimization in WSNs.

Artificial Intelligence Based Energy Aware Routing Protocol AIEARP for Wireless Sensor Network Dr. Pooja Singh, Dr. Reshma V. K., Dr. M. Sadish Sendil, Dr. Shivamurthiah Mallaiah. 2022-11-16 The current progress in Wireless Sensor Network has taken to various new protocols formed especially for sensor networks in where the energy awareness is a necessary deliberation. Wireless Sensor Network is highly accessible for significant applications namely surveillance of security and environmental monitoring. The researchers all over the world are investigating about the most important parameter of wireless sensor network i.e. Energy. The main emphasis is given over the efficiency of energy as the energy saved by the wireless sensor network is less and the consumption of energy is high and this is the main reason behind the lifetime network depletion at a fast pace. There in the sensor nodes one more challenge is exhibited that is of the limited power capacity, so for the same the battery should be either charged or changed as there are several functions which are to be performed by the energy of the sensor nodes being aggregation, sensing and transmission of data and on board processing. Majorly, the energy is consumed by the wireless data transmission among the nodes and more energy is consumed as compared to the other sensing and processing operations of data. The high energy is consumed because the data is transmitted over a large distance as the nodes are located far from each other. Further, the collision, overhearing and idle listening of the nodes are the major reasons behind the high wastage of energy during the transmission and the communication of data. There are several applications, in which the nodes are disregarded, and thus worsening the failure of nodes and enhancing the problem of high energy consumption. The success of the application is dependent over the network lifetime and the exchange or the recharging of the batteries is costly as well as not feasible. Therefore, the attention of the researchers is seeking towards usage and the consumption of the energy. Further, the development of such energy efficient network should be done which should cover and provide solution for all the above mentioned challenges so that the utility of the wireless sensor networks is enhanced in the applications related to it. The main intention of this study and book is to investigate in detail about the concept “An Intelligent Energy Aware Routing Protocol using Data Fusion Technique in Wireless Sensor Networks”. Significance of the Book: This book convers and discusses about previous studies carried out in the area of data fusion and the crucial issue in energy reduction of the sensor modes during the data fusion. The main objectives of this book a) To analyze the energy aware routing protocol in wireless sensor network; b) To examine the maximum energy consumption for routing process to sustain long life batter power in wireless sensor network.; c) To analyze the routing protocol enhancement by applying data fusion technique; d) To explore the routing protocol enhancement by applying data fusion technique; e) To propose an algorithm to integrate data fusion technique to enhance the consumption of energy. This book study is constrained to wireless sensor networks and limited to data fusion technique. However, this book study evaluates the concept of “An Intelligent Energy Aware Routing Protocol using Data Fusion Technique in Wireless Sensor Networks”. Finally, this book considers a novel network organization scheme, energy-efficient Self organizing Map (K-SOM) Feed forward scheme, to organize sensor nodes into clusters with Data-Fusion. Also, it proposes a Energy aware routing algorithm, called “Artificial Intelligence Based Energy Aware Routing Protocol (AIEARP) for Wireless Sensor Network, for elevating sensor network lifetime. This book also shows the Experimental results for out-performs interims of network lifetime with dead nodes at different iteration and energy conservation with its energy consumption among the cluster heads. The following is an overview of the contents of the chapter, which presented in this Book. Chapter 1: Introduction of the EARP in WSN This chapter provides the vital idea about the research concept “An Intelligent Energy Aware Routing Protocol using Data Fusion Technique in Wireless Sensor Networks” including the research background, problem statement, aims and objectives of the study, research questions, significance of the study and limitations of the research. Chapter 2: Literature Review This chapter examines several works related to the conceptual framework model for “An Intelligent Energy Aware Routing Protocol using Data Fusion Technique in Wireless Sensor Networks”. In addition to these, this research explains in detail about the energy aware routing protocol in wireless sensor network. Apart from these, this research explains about the maximum energy consumption for routing process to sustain long life batter power in wireless sensor network. At last, this literature review chapter discusses about the routing protocol enhancement by applying data fusion technique and the routing protocol enhancement by applying data fusion technique. In addition to these, this research provides framework for “An Intelligent Energy Aware Routing Protocol using Data Fusion Technique in Wireless Sensor Networks”. Chapter 3: Research design This chapter provides an overview about the intelligent energy aware routing protocol using data fusion technique in wireless sensor networks. This chapter explains about the steps to be followed in the developed method. Chapter 4: Result analysis in term of intelligent energy aware protocol This chapter discusses about the analysis of implementation of proposed framework “An Intelligent Energy Aware Routing Protocol using Data Fusion Technique in Wireless Sensor Networks”.

Chapter 5: Conclusion & Future enhancement This chapter explains about the summary of findings obtained through the analysis and results section and also gives conclusion to the research “An Intelligent Energy Aware Routing Protocol using Data Fusion Technique in Wireless Sensor Networks” followed by suggestions and recommendations for the future research. Bibliography: This section lists all works of interest, including those mentioned in the text.

Unlocking the Power of OPNET Modeler Zheng Lu, Hongji Yang. 2012-01-19 For fast, easy modeling, this practical guide provides all the essential information you need to know. A wide range of topics is covered, including custom protocols, programming in C++, External Model Access (EMA) modeling and co-simulation with external systems, giving you the guidance not provided in the OPNET documentation. A set of high-level wrapper APIs is also included to simplify programming custom OPNET models, whether you are a newcomer to OPNET or an experienced user needing to model efficiently. From the basic to the advanced, you will find topics are easy to follow with theory kept to a minimum, many practical tips and answers to frequently asked questions spread throughout the book and numerous step-by-step case studies and real-world network scenarios included.

Handbook of 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.

Computing Science, Communication and Security Nirbhay Chaubey, Sabu M. Thampi, Noor Zaman Jhanjhi. 2022-07-01 This book constitutes revised selected papers of the Third International Conference on Computing Science, Communication and Security, COMS2 2022, held in Gandhinagar, India, in February 2022. Due to the COVID-19 pandemic the conference was held virtually. The 22 full papers were thoroughly reviewed and selected from 143 submissions. The papers present ideas, and research results on the aspects of computing science, network communication, and security.

Adaptive Filtering Primer with MATLAB Alexander D. Poularikas, Zayed M. Ramadan. 2006-02-14 Because of the wide use of adaptive filtering in digital signal processing and, because most of the modern electronic devices include some type of an adaptive filter, a text that brings forth the fundamentals of this field was necessary. The material and the principles presented in this book are easily accessible to engineers, scientists, and students who would like to learn the fundamentals of this field and have a background at the bachelor level. Adaptive Filtering Primer with MATLAB® clearly explains the fundamentals of adaptive filtering supported by numerous examples and computer simulations. The authors introduce discrete-time signal processing, random variables and stochastic processes, the Wiener filter, properties of the error surface, the steepest descent method, and the least mean square (LMS) algorithm. They also supply many MATLAB® functions and m-files along with computer experiments to illustrate how to apply the concepts to real-world problems. The book includes problems along with hints, suggestions, and solutions for solving them. An appendix on matrix computations completes the self-contained coverage. With applications across a wide range of areas, including radar, communications, control, medical instrumentation, and seismology, Adaptive Filtering Primer with MATLAB® is an ideal companion for quick reference and a perfect, concise introduction to the field.

Electronic Devices and Circuit Design Suman Lata Tripathi, Smrity Dwivedi. 2022-02-03 This new volume offers a broad view of the challenges of electronic devices and circuits for IoT applications. The book presents the basic concepts and fundamentals behind new low power, high-speed efficient devices, circuits, and systems in addition to CMOS. It provides an understanding of new materials to improve device performance with smaller dimensions and lower costs. It also looks at the new methodologies to enhance system performance and provides key parameters for exploring the devices and circuit performance based on smart applications. The chapters delve into myriad aspects of circuit design, including MOSFET structures depending on their low power applications for IoT-enabled systems, advanced sensor design and fabrication using MEMS, indirect bootstrap techniques, efficient CMOS comparators, various encryption-decryption algorithms, IoT video forensics applications, microstrip patch antennas in embedded IoT applications, real-time object detection using sound, IOT and nanotechnologies based wireless sensors, and much more.

Efficient Routing Algorithm for Delay Tolerant Networks Mehul Shah, Namita Mehta. 2014-10-08 A Delay Tolerant Networks (DTNs), also known as intermittently connected wireless mobile networks, works effectively at the time of discontinuous network connectivity between two nodes. A communication network which is capable of storing packets momentarily in intermediate nodes and conveys the packets when end-to-end route is re-established or regenerated is known as a delay tolerant network/ disruption tolerant networks. Many routing protocols have been developed for DTN based on movement pattern of the nodes. In this book we presents a novel routing protocol which exploits mobility characteristics of human walk. We evaluate a novel Human Mobility based Spray & Wait Routing protocol (HMSaW) under human mobility as per Truncated Levy Walk (TLW) mobility model. HMSaW is more efficient compared to existing Spray and Wait routing protocol for mode movements as per human walk. The presented HMSaW protocol perform better in terms of delivery ratio and communication overhead compared to existing spray and wait Routing protocol with marginal reduction in delivery delay. MATLAB code of the presented simulation results are also provided in this book.

Mobile Computing and Wireless Networks: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources. 2015-09-30 We live in a wireless society, one where convenience and accessibility determine the efficacy of the latest electronic gadgets and mobile devices. Making the most of these technologies—and ensuring their security against potential attackers—requires increased diligence in mobile technology research and development. Mobile Computing and Wireless Networks: Concepts, Methodologies, Tools, and Applications brings together a comprehensive range of voices and research in the area of mobile and wireless technologies, exploring the successes and failures, advantages and drawbacks, and benefits and limitations of the technology. With applications in a plethora of different research and topic areas, this multi-volume reference work benefits researchers, service providers, end-users, and information technology professionals. This four-volume reference work includes a diverse array of chapters and authors covering topics such as m-commerce, network ethics, mobile agent systems, mobile learning, communications infrastructure, and applications in fields such as business, healthcare, government, tourism, and more.

Proceedings of Third International Conference on Sustainable Computing Ramesh Chandra Poonia, Vijander Singh, Dharm Singh Jat, Mario José Diván, Mohammed S. Khan. 2022-01-04 The book includes a selection of the best papers presented at the Third International Conference on Sustainable Computing (SUSCOM 2021), held in Jaipur, India, during 19 - 20 March 2021. It covers topics like Internet of things (IoT); artificial system of security; smart storage and knowledge retrieval using data cloud; intelligent transport management; intelligent cognitive and bio-inspired computing and management science. The book is useful for peoples from academia, government bodies, healthcare and industry to discuss their future scope.

Applications of Evolutionary Computation Cecilia Di Chio. 2011-04-19 This book constitutes the refereed proceedings of the International Conference on the Applications of Evolutionary Computation, EvoApplications 2011, held in Torino, Italy, in April 2011 colocated with the Evo* 2011 events. Thanks to the large number of submissions received, the proceedings for EvoApplications 2011 are divided across two volumes (LNCS 6624 and 6625). The present volume contains contributions for EvoCOMNET, EvoFIN, EvoHOT, EvoMUSART, EvoSTIM, and EvoTRANSLOC. The 51 revised full papers presented were carefully reviewed and selected from numerous submissions. This volume presents an overview about the latest research in EC. Areas where evolutionary computation techniques have been applied range from telecommunication networks to complex systems, finance and economics, games, image analysis, evolutionary music and art, parameter optimization, scheduling, and logistics. These papers may provide guidelines to help new researchers tackling their own problem using EC.

Network Routing. 2010-07-19 Network routing can be broadly categorized into Internet routing, PSTN routing, and telecommunication transport network routing. This book systematically considers these routing paradigms, as well as their interoperability. The authors discuss how algorithms, protocols, analysis, and operational deployment impact these approaches. A unique feature of the book is consideration of both macro-state and micro-state in routing; that is, how routing is accomplished at the level of networks and how routers or switches are designed to enable efficient routing. In reading this book, one will learn about 1) the evolution of network routing, 2) the role of IP and E.164 addressing in routing, 3) the impact on router and switching architectures and their design, 4) deployment of network routing protocols, 5) the role of traffic engineering in routing, and 6) lessons learned from implementation and operational experience. This book explores the strengths and weaknesses that should be considered during deployment of future routing schemes as well as actual implementation of these schemes. It allows the reader to understand how different routing strategies work and are employed and the connection between them. This is accomplished in part by the authors' use of numerous real-world examples to bring the material alive. Bridges the gap between theory and practice in network routing, including the fine points of implementation and operational experience Routing in a multitude of technologies discussed in practical detail, including, IP/MPLS, PSTN, and optical networking Routing protocols such as OSPF, IS-IS, BGP presented in detail A detailed coverage of various router and switch architectures A comprehensive discussion about algorithms on IP-lookup and packet classification Accessible to a wide audience due to its vendor-neutral approach

Computer Communication, Networking and IoT Suresh Chandra Satapathy, Jerry Chun-Wei Lin, Lai Khin Wee, Vikrant Bhateja, T. M. Rajesh. 2022-10-04 This book features a collection of high-quality, peer-reviewed papers presented at the Fifth International Conference on Intelligent Computing and Communication (ICICC 2021) organized by the Department of Computer Science and Engineering and Department of Computer Science and Technology, Dayananda Sagar University, Bengaluru, India, on November 26 - 27, 2021. The book is organized in two volumes and discusses advanced and multi-disciplinary research regarding the design of smart computing and informatics. It focuses on innovation paradigms in system knowledge, intelligence, and sustainability that can be applied to provide practical solutions to a number of problems in society, the environment and industry. Further, the book also addresses the deployment of emerging computational and knowledge transfer approaches, optimizing solutions in various disciplines of science, technology, and healthcare.

A Heterogenous Clustering Protocol in WSN: HREF-LEACH Protocol Heena Dhawan. 2014-07-23 A WSN consists of spatially distributed autonomous energy-constraints sensor nodes. A no. of routing protocols are designed in this context. Clustering is one of the key techniques in wireless sensor network with less energy consumption. LEACH (Low Energy Adaptive Clustering Hierarchy) [29] has been widely proposed in wireless sensor networks. ESEP (Extended Stable Election Protocol) saves better the energy consumption by making it heterogeneous taking 3-energy level nodes called advance, intermediate and normal. The advance node has more energy than intermediate and normal node. The probability of choosing cluster head depends on higher initial energy relative to other nodes as the energy drain rate is less in moderate and advanced nodes, extending lifetime of the network. The proposed HREF-LEACH protocol classifies the nodes into different types in term of their energy levels. The proposed scheme merges the idea of ESEP and LEACH protocol in which cluster heads are chosen based on sorting of remaining energies of nodes after each round. The simulation result shows that proposed protocol gives better performance than existing protocols using MATLAB against chosen performance metrics

Digital Filters Using MATLAB Lars Wanhammar, Tapio Saramäki. 2020-02-18 This textbook provides comprehensive coverage for courses in the basics of design and implementation of digital filters. The book assumes only basic knowledge in digital signal processing and covers state-of-the-art methods for digital filter design and provides a simple route for the readers to design their own filters. The advanced mathematics that is required for the filter design is minimized by providing an extensive MATLAB toolbox with over 300 files. The book presents over 200 design examples with MATLAB code and over 300 problems to be solved by the reader. The students can design and modify the code for their use. The book and the design examples cover almost all known design methods of frequency-selective digital filters as well as some of the authors' own, unique techniques.

Intelligent Computing and Applications Durbadal Mandal, Rajib Kar, Swagatam Das, Bijaya Ketan Panigrahi. 2015-02-23 The idea of the 1st International Conference on Intelligent Computing and Applications (ICICA 2014) is to bring the Research Engineers, Scientists, Industrialists, Scholars and Students together from in and around the globe to present the on-going research activities and hence to encourage research interactions between universities and industries. The conference provides opportunities for the delegates to exchange new ideas, applications and experiences, to establish research relations and to find global partners for future collaboration. The proceedings covers latest progresses in the cutting-edge research on various research areas of Image, Language Processing, Computer Vision and Pattern Recognition, Machine Learning, Data Mining and Computational Life Sciences, Management of Data including Big Data and Analytics, Distributed and Mobile Systems including Grid and Cloud infrastructure, Information Security and Privacy, VLSI, Electronic Circuits, Power Systems, Antenna, Computational fluid dynamics & Heat transfer, Intelligent Manufacturing, Signal Processing, Intelligent Computing, Soft Computing, Bio-informatics, Bio Computing, Web Security, Privacy and E-Commerce, E-governance, Service Orient Architecture, Data Engineering, Open Systems, Optimization, Communications, Smart wireless and sensor Networks, Smart Antennae, Networking and Information security, Machine Learning, Mobile Computing and Applications, Industrial Automation and MES, Cloud Computing, Green IT, IT for Rural Engineering, Business Computing, Business Intelligence, ICT for Education for solving hard problems, and finally to create awareness about these domains to a wider audience of practitioners.

Advanced Computing and Intelligent Engineering Bibudhendu Pati, Chhabi Rani Panigrahi, Rajkumar Buyya, Kuan-Ching Li. 2020-03-03 This book gathers high-quality research papers presented at the 3rd International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2018). It includes sections describing technical advances and the latest research in the fields of computing and intelligent engineering. Intended for graduate students and researchers working in the disciplines of computer science and engineering, the proceedings will also appeal to researchers in the field of electronics, as they cover hardware technologies and future communication technologies.

Web, Artificial Intelligence and Network Applications Leonard Barolli, Flora Amato, Francesco Moscato, Tomoya Enokido, Makoto Takizawa. 2020-03-30 This proceedings book presents the latest research findings, and theoretical and practical perspectives on innovative methods and development techniques related to the emerging areas of Web computing, intelligent systems and Internet computing. The Web has become an important source of information, and techniques and methodologies that extract quality information are of paramount importance for many Web and Internet applications. Data mining and knowledge discovery play a key role in many of today's major Web applications, such as e-commerce and computer security. Moreover, Web services provide a new platform for enabling service-oriented systems. The emergence of large-scale distributed computing paradigms, such as cloud computing and mobile computing systems, has opened many opportunities for collaboration services, which are at the core of any information system. Artificial intelligence (AI) is an area of computer science that builds intelligent systems and algorithms that work and react like humans. AI techniques and computational intelligence are powerful tools for learning, adaptation, reasoning and planning, and they have the potential to become enabling technologies for future intelligent networks. Research in the field of intelligent systems, robotics, neuroscience, artificial intelligence and cognitive sciences is vital for the future development and innovation of Web and Internet applications. Chapter An Event-Driven Multi Agent System for Scalable Traffic Optimization is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Emerging Technologies for Health and Medicine Dac-Nhuong Le, Chung Van Le, Jolanda G. Tromp, Gia Nhu Nguyen. 2018-10-02 With the current advances in technology innovation, the field of medicine and healthcare is rapidly expanding and, as a result, many different areas of human health diagnostics, treatment and care are emerging. Wireless technology is getting faster and 5G mobile technology allows the Internet of Medical Things (IoMT) to greatly improve patient care and more effectively prevent illness from developing. This book provides an overview and review of the current and anticipated changes in medicine and healthcare due to new technologies and faster communication between users and devices. This groundbreaking book presents state-of-the-art chapters on many subjects including: A review of the implications of VR and AR healthcare applications A review of current augmenting dental care An overview of typical human-computer interaction (HCI) that can help inform the

development of user interface designs and novel ways to evaluate human behavior to responses in virtual reality (VR) and other new technologies A review of telemedicine technologies Building empathy in young children using augmented reality AI technologies for mobile health of stroke monitoring & rehabilitation robotics control Mobile doctor brain AI App An artificial intelligence mobile cloud computing tool Development of a robotic teaching aid for disabled children Training system design of lower limb rehabilitation robot based on virtual reality

Proceedings of the 2nd International Conference on Cognitive and Intelligent Computing Amit Kumar, Gheorghita Ghinea, Suresh Merugu. 2023-11-02 This book includes original, peer-reviewed articles from the 2nd International Conference on Cognitive & Intelligent Computing (ICCIC-2022), held at Vasavi College of Engineering Hyderabad, India. It covers the latest trends and developments in areas of cognitive computing, intelligent computing, machine learning, smart cities, IoT, artificial intelligence, cyber-physical systems, cybernetics, data science, neural network, and cognition. This book addresses the comprehensive nature of computational intelligence, cognitive computing, AI, ML, and DL to emphasize its character in modeling, identification, optimization, prediction, forecasting, and control of future intelligent systems. Submissions are original, unpublished, and present in-depth fundamental research contributions either from a methodological/application perspective in understanding artificial intelligence and machine learning approaches and their capabilities in solving diverse range of problems in industries and its real-world applications.

Understanding LTE with MATLAB Houman Zarrinkoub. 2014-01-28 An introduction to technical details related to the Physical Layer of the LTE standard with MATLAB®. The LTE (Long Term Evolution) and LTE-Advanced are among the latest mobile communications standards, designed to realize the dream of a truly global, fast, all-IP-based, secure broadband mobile access technology. This book examines the Physical Layer (PHY) of the LTE standards by incorporating three conceptual elements: an overview of the theory behind key enabling technologies; a concise discussion regarding standard specifications; and the MATLAB® algorithms needed to simulate the standard. The use of MATLAB®, a widely used technical computing language, is one of the distinguishing features of this book. Through a series of MATLAB® programs, the author explores each of the enabling technologies, pedagogically synthesizes an LTE PHY system model, and evaluates system performance at each stage. Following this step-by-step process, readers will achieve deeper understanding of LTE concepts and specifications through simulations. Key Features: • Accessible, intuitive, and progressive; one of the few books to focus primarily on the modeling, simulation, and implementation of the LTE PHY standard • Includes case studies and testbenches in MATLAB®, which build knowledge gradually and incrementally until a functional specification for the LTE PHY is attained • Accompanying Web site includes all MATLAB® programs, together with PowerPoint slides and other illustrative examples Dr Houman Zarrinkoub has served as a development manager and now as a senior product manager with MathWorks, based in Massachusetts, USA. Within his 12 years at MathWorks, he has been responsible for multiple signal processing and communications software tools. Prior to MathWorks, he was a research scientist in the Wireless Group at Nortel Networks, where he contributed to multiple standardization projects for 3G mobile technologies. He has been awarded multiple patents on topics related to computer simulations. He holds a BSc degree in Electrical Engineering from McGill University and MSc and PhD degrees in Telecommunications from the Institut Nationale de la Recherche Scientifique, in Canada.

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Communication, Management and Information Technology Marcelo Sampaio de Alencar. 2016-11-03 Communication, Management and Information Technology contains the contributions presented at the International Conference on Communication, Management and Information Technology (ICCMIT 2016, Cosenza, Italy, 26-29 April 2016, organized by the Universal Society of Applied Research (USAR). The book aims at researchers, scientists, engineers, and scholar students interested or involved in Computer Science and Systems, Communication, and Management.

Soft Computing: Theories and Applications Tarun K. Sharma, Chang Wook Ahn, Om Prakash Verma, Bijaya Ketan Panigrahi. 2021-06-26 This book focuses on soft computing and how it can be applied to solve real-world problems arising in various domains, ranging from medicine and healthcare, to supply chain management, image processing and cryptanalysis. It gathers high-quality papers presented at the International Conference on Soft Computing: Theories and Applications (SoCTA 2020), organized online. The book is divided into two volumes and offers valuable insights into soft computing for teachers and researchers alike; the book will inspire further research in this dynamic field.

Sensors and Image Processing Shabana Urooj, Jitendra Virmani. 2017-10-03 This volume comprises the select proceedings of the annual convention of the Computer Society of India. Divided into 10 topical volumes, the proceedings present papers on state-of-the-art research, surveys, and succinct reviews. The volumes cover diverse topics ranging from communications networks to big data analytics, and from system architecture to cyber security. This volume focuses on Sensors and Image Processing. The contents of this book will be useful to researchers and students alike.

Computer Networks, Big Data and IoT A. Pasumpon Pandian, Xavier Fernando, Wang Haoxiang. 2022-05-21 This book presents best selected research papers presented at the International Conference on Computer Networks, Big Data and IoT (ICCBi 2021), organized by Vaigai College Engineering, Madurai, Tamil Nadu, India, during December 9-10, 2021. The book covers original papers on computer networks, network protocols and wireless networks, data communication technologies and network security. The book is a valuable resource and reference for researchers, instructors, students, scientists, engineers, managers and industry practitioners in those important areas.

Proceedings of the 3rd International Conference on Communication, Devices and Computing Biplab Sikdar, Santi Prasad Maity, Jagannath Samanta, Avisankar Roy. 2022-02-18 This book provides insights into the 3rd International Conference on Communication, Devices and Computing (ICCDC 2021), which was held in Haldia, India, on August 16-18, 2021. It covers new ideas, applications, and the experiences of research engineers, scientists, industrialists, scholars, and students from around the globe. The proceedings highlight cutting-edge research on communication, electronic devices, and computing and address diverse areas such as 5G communication, spread spectrum systems, wireless sensor networks, and signal processing for secure communication, error control coding, printed antennas, analysis of wireless networks, antenna array systems, analog and digital signal processing for communication systems, frequency selective surfaces, radar communication, and substrate integrated waveguide and microwave passive components, which are key to state-of-the-art innovations in communication technologies.

Practical Channel-Aware Resource Allocation Michael Ghorbanzadeh, Ahmed Abdelhadi. 2021-07-08 This book dives into radio resource allocation optimizations, a research area for wireless communications, in a pragmatic way and not only includes wireless channel conditions but also incorporates the channel in a simple and practical fashion via well-understood equations. Most importantly, the book presents a practical perspective by modeling channel conditions using terrain-aware propagation which narrows the gap between purely theoretical work and that of industry methods. The provided propagation modeling reflects industry grade scenarios for radio environment map and hence makes the channel based resource allocation presented in the book a field-grade view. Also, the book provides large scale simulations that account for realistic locations with terrain conditions that can produce realistic scenarios applicable in the field. Most portions of the book are accompanied with MATLAB code and occasionally MATLAB/Python/C code. The book is intended for graduate students, academics, researchers of resource allocation in mathematics, computer science, and electrical engineering departments as well as working professionals/engineers in wireless industry.

Transactions on Engineering Technologies Sio-Iong Ao, Haeng Kon Kim, Mahyar A. Amouzegar. 2017-02-04 This proceedings volume contains selected revised and extended research articles written by researchers who participated in the World Congress on Engineering and Computer Science 2015, held in San Francisco, USA, 21-23 October 2015. Topics covered include engineering mathematics, electrical engineering, circuits, communications systems, computer science, chemical engineering, systems engineering, manufacturing engineering, and industrial applications. The book offers the reader an overview of the state of the art in engineering technologies, computer science, systems engineering and applications, and will serve as an excellent reference work for researchers and graduate students working in these fields.

Challenges and Opportunity with Big Data Lin Zhang, Lei Ren, Fabrice Kordon. 2017-08-03 This book presents the thoroughly refereed and revised post-workshop proceedings of the 19th Monterey Workshop, held in Beijing, China, in October 2016. The workshop explored the challenges associated with the Development, Operation and Management of Large-Scale complex IT Systems. The 18 revised full papers presented were significantly extended and improved by the insights gained from the productive and lively discussions at the workshop, and the feedback from the post-workshop peer reviews. 2016 marks the 23rd anniversary for the Monterey Workshop series which started in 1993. For nearly a quarter of

century, the Monterey Workshops have established themselves as an important international forum to foster, among academia, industry, and government agencies, discussion and exchange of ideas, research results and experience in developing software intensive systems, and have significantly advanced the field. The community of the workshop participants has grown to become an influential source of ideas and innovations and its impact on the knowledge economy has been felt worldwide.

Network Modeling, Simulation and Analysis in MATLAB Dac-Nhuong Le, Abhishek Kumar Pandey, Sairam Tadepalli, Pramod Singh Rathore, Jyotir Moy Chatterjee. 2019-08-13 The purpose of this book is first to study MATLAB programming concepts, then the basic concepts of modeling and simulation analysis, particularly focus on digital communication simulation. The book will cover the topics practically to describe network routing simulation using MATLAB tool. It will cover the dimensions like Wireless network and WSN simulation using MATLAB, then depict the modeling and simulation of vehicles power network in detail along with considering different case studies. Key features of the book include: Discusses different basics and advanced methodology with their fundamental concepts of exploration and exploitation in NETWORK SIMULATION. Elaborates practice questions and simulations in MATLAB Student-friendly and Concise Useful for UG and PG level research scholar Aimed at Practical approach for network simulation with more programs with step by step comments. Based on the Latest technologies, coverage of wireless simulation and WSN concepts and implementations

Introduction to Genetic Algorithms S.N. Sivanandam, S. N. Deepa. 2007-10-24 This book offers a basic introduction to genetic algorithms. It provides a detailed explanation of genetic algorithm concepts and examines numerous genetic algorithm optimization problems. In addition, the book presents implementation of optimization problems using C and C++ as well as simulated solutions for genetic algorithm problems using MATLAB 7.0. It also includes application case studies on genetic algorithms in emerging fields.

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Evolutionary Computing and Mobile Sustainable Networks V. Suma, Xavier Fernando, Ke-Lin Du, Haoxiang Wang. 2022-03-21 This book mainly reflects the recent research works in evolutionary computation technologies and mobile sustainable networks with a specific focus on computational intelligence and communication technologies that widely ranges from theoretical foundations to practical applications in enhancing the sustainability of mobile networks. Today, network sustainability has become a significant research domain in both academia and industries present across the globe. Also, the network sustainability paradigm has generated a solution for existing optimization challenges in mobile communication networks. Recently, the research advances in evolutionary computing technologies including swarm intelligence algorithms and other evolutionary algorithm paradigms are considered as the widely accepted descriptors for mobile sustainable networks virtualization, optimization, and automation. To deal with the emerging impacts on mobile communication networks, this book discusses about the state-of-the research works on developing a sustainable design and their implementation in mobile networks. With the advent of evolutionary computation algorithms, this book contributes varied research chapters to develop a new perspective on mobile sustainable networks.

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Proceedings of ICETIT 2019 Pradeep Kumar Singh, Bijaya Ketan Panigrahi, Nagender Kumar Suryadevara, Sudhir Kumar Sharma, Amit Prakash Singh. 2019-09-23 This book presents high-quality, original contributions (both theoretical and experimental) on Information Security, Machine Learning, Data Mining and Internet of Things (IoT). It gathers papers presented at ICETIT 2019, the 1st International Conference on Emerging Trends in Information Technology, which was held in Delhi, India, in June 2019. This conference series represents a targeted response to the growing need for research that reports on and assesses the practical implications of IoT and network technologies, AI and machine learning, data analytics and cloud computing, security and privacy, and next generation computing technologies.

Artificial Intelligence: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources. 2016-12-12 Ongoing advancements in modern technology have led to significant developments in artificial intelligence. With the numerous applications available, it becomes imperative to conduct research and make further progress in this field. Artificial Intelligence: Concepts, Methodologies, Tools, and Applications provides a comprehensive overview of the latest breakthroughs and recent progress in artificial intelligence. Highlighting relevant technologies, uses, and techniques across various industries and settings, this publication is a pivotal reference source for researchers, professionals, academics, upper-level students, and practitioners interested in emerging perspectives in the field of artificial intelligence.

Optimizations and Programming Abdelkhalak El Hami, Bouchaib Radi. 2021-04-08 This book is a general presentation of complex systems, examined from the point of view of management. There is no standard formula to govern such systems, nor to effectively understand and respond to them. The interdisciplinary theory of self-organization is teeming with examples of living systems that can reorganize at a higher level of complexity when confronted with an external challenge of a certain magnitude. Modern businesses, considered as complex systems, ideally know how to flexibly and resiliently adapt to their environment, and also how to prepare for change via self-organization. Understanding sources of potential crisis is essential for leaders, though not all crises are necessarily bad news, as creative firms know how to respond to challenges through innovation: new products and markets, organizational learning for collective intelligence, and more.

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