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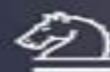
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Omoseni Oyindamola Adepoju,Nnamdi Ikechi Nwulu,Love Opeyemi David

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Evolution of Smart Grids Zubair Md. Fadlullah,Nei Kato,2015-11-13 This SpringerBrief explores the opportunities and challenges posed by the smart grid The evolution of the smart grid should allow consumers to directly communicate with their utility provider However complex issues such as architecture with legacy support varying demand response and load management varying price of power and so forth can lead to various decision making challenges It is essential to identify the scope and challenges of the smart grid in a comprehensive manner so as to ensure efficient delivery of sustainable economic and secure electricity supplies This book provides an overview of the smart grid and its key advances in architecture distribution management demand side response and load balancing smart automation electric storage power loss minimization and security Readers interested in a basic knowledge of electric grid and communication networks will find Evolution of Smart Grids useful Readers who want more insight on smart grid research will also find this book a valuable resource *Long Term Evolution in Unlicensed Bands* Quang-Dung Ho,Daniel Tweed,Tho Le-Ngoc,2016-10-26 This SpringerBrief focuses on the coexistence concerns emerging in LTE networks using unlicensed frequency bands It provides a comprehensive review on LTE networks and their unavoidable need for enhanced capacity to meet the demands for future applications including a need for low cost options LTE using unlicensed frequency U LTE is then introduced as the most promising solution and discussed from various perspectives to unveil its benefits challenges and requirements for coexistence with the widely deployed IEEE 802 11 Wi Fi technology Meeting these coexistence requirements is the most important factor for the acceptance of U LTE and the majority of this brief explores the big picture concerns and existing solutions related to coexistence aware medium access protocols for background knowledge A proposed network aware adaptive listen before talk protocol is presented and evaluated Finally the authors identify a number of open technical questions and potential research issues in U LTE This SpringerBrief is suitable for telecom engineers researchers and academic professionals with valuable knowledge and potential working or research directions when designing and developing medium access protocols for next generation wireless access networks **Speech Processing and Soft Computing** Sid-Ahmed Selouani,2011-09-02 Speech Processing and Soft Computing includes coverage of synergy between speech technology and bio inspired soft computing methods Through practical cases the author explores dissects and examines how soft computing may complement conventional techniques in speech enhancement and speech recognition in order to provide robust systems The material is especially useful to graduate students and experienced researchers who are interested in expanding their horizons and investigating new research directions through review of the theoretical and practical settings of soft computing methods in very recent speech applications *Radio Frequency Multiple Access Techniques Made Easy* Saleh Faruque,2018-08-27 This book provides a comprehensive overview of multiple access techniques used in the cellular industry The usage of multiple access techniques in telecommunications enables many users

to share the same spectrum in the frequency domain time domain code domain or phase domain Licenses are given by the FCC to operate wireless communication systems over given bands of frequencies with the smaller bands channels reused to provide services to other users Thus bandwidth efficiency is vital as the speed and size of digital data networks continue to expand This brief also uses numerous illustrations to bring students up to date in the practical applications of multiple access techniques which can then be put to work in the industry Primarily electrical engineering students who study telecommunications as well as engineers and designers working in wireless communications would find this book useful

Risk Management Framework for Fourth Industrial Revolution Technologies Omoseni Oyindamola Adepoju,Nnamdi Ikechi Nwulu,Love Opeyemi David,2024-10-24 This book focuses on major challenges posed by the Fourth Industrial Revolution 4IR particularly the associated risks By recognizing and addressing these risks it bridges the gap between technological advancements and effective risk management It further facilitates a swift adoption of technology and equips readers with the knowledge to be cautious during its implementation Divided into three parts it covers an overview of 4IR and explores the risks and risk management techniques and comprehensive risk management framework specifically tailored for the 4IR Features Establishes a risk management framework for Industry 4 0 technologies Provides a one stop shop of different technologies emerging in the Fourth Industrial Revolution Follows a consistent structure for each key Industry 4 0 technology in separate chapters Details required risk management skills for the technologies of the Fourth Industrial Revolution Covers risk monitoring control and mitigation measures This book is aimed at graduate students technology enthusiasts and researchers in computer sciences technology management business management and industrial engineering

Nanoelectronic Mixed-Signal System Design Saraju Mohanty,2015-02-20 Covering both the classical and emerging nanoelectronic technologies being used in mixed signal design this book addresses digital analog and memory components Winner of the Association of American Publishers 2016 PROSE Award in the Textbook Physical Sciences Mathematics category Nanoelectronic Mixed Signal System Design offers professionals and students a unified perspective on the science engineering and technology behind nanoelectronics system design Written by the director of the NanoSystem Design Laboratory at the University of North Texas this comprehensive guide provides a large scale picture of the design and manufacturing aspects of nanoelectronic based systems It features dual coverage of mixed signal circuit and system design rather than just digital or analog only Key topics such as process variations power dissipation and security aspects of electronic system design are discussed Top down analysis of all stages from design to manufacturing Coverage of current and developing nanoelectronic technologies not just nano CMOS Describes the basics of nanoelectronic technology and the structure of popular electronic systems Reveals the techniques required for design excellence and manufacturability

Resource Allocation in Unlicensed Long Term Evolution HetNets Huaqing Zhang,Sami Khairy,Lin X. Cai,Zhu Han,2017-12-29 This SpringerBrief investigates cross layer resource allocation in unlicensed LTE Long Term Evolution

HetNets Specifically the authors study and cover the radio access management of unlicensed LTE to allow efficient spectrum utilization and harmonious coexistence with other unlicensed systems in this brief Efficient radio access protocols are developed to allow unlicensed LTE users to fair share channel access with unlicensed users in different systems including Wi Fi and unlicensed LTE of other operators An analytical model is developed to study the performance of the proposed protocols To achieve efficient spectrum sharing among various unlicensed users the authors further formulate a resource allocation problem based on Nobel Prize winning game theory framework and propose efficient algorithms to achieve the maximal user utility Opportunistic traffic offloading from licensed band to unlicensed bands is also investigated based on the network formation game By exploiting the characteristics of mobile social networks the offloading performance can be further enhanced This brief targets researchers and engineers from both academia and industry interested in the development of LTE over unlicensed bands as well as the design and implementation of cross layer radio resource management Students studying electrical engineering and computer science will also find this brief useful for their studies

    Cloud Computing Basics S. Srinivasan,2014-05-14 Cloud Computing Basics covers the main aspects of this fast moving technology so that both practitioners and students will be able to understand cloud computing The author highlights the key aspects of this technology that a potential user might want to investigate before deciding to adopt this service This book explains how cloud services can be used to augment existing services such as storage backup and recovery Addressing the details on how cloud security works and what the users must be prepared for when they move their data to the cloud Also this book discusses how businesses could prepare for compliance with the laws as well as industry standards such as the Payment Card Industry   **C.A.E.E. (Computer Aided Electronic Engineering an (r)evolution in Electronic Design** ,

    Differential Evolution Anyong Qing,2009-07-23 Differential evolution is a very simple but very powerful stochastic optimizer Since its inception it has proved very efficient and robust in function optimization and has been applied to solve problems in many scientific and engineering fields In Differential Evolution Dr Qing begins with an overview of optimization followed by a state of the art review of differential evolution including its fundamentals and up to date advances He goes on to explore the relationship between differential evolution strategies intrinsic control parameters non intrinsic control parameters and problem features through a parametric study Findings and recommendations on the selection of strategies and intrinsic control parameter values are presented Lastly after an introductory review of reported applications in electrical and electronic engineering fields different research groups demonstrate how the methods can be applied to such areas as multicast routing multisite mapping in grid environments antenna arrays analog electric circuit sizing electricity markets stochastic tracking in video sequences and color quantization Contains a systematic and comprehensive overview of differential evolution Reviews the latest differential evolution research Describes a comprehensive parametric study conducted over a large test bed Shows how methods can be practically applied to mobile communications grid computing

circuits image processing power engineering Sample applications demonstrated by research groups in the United Kingdom Australia Italy Turkey China and Eastern Europe Provides access to companion website with code examples for download Differential Evolution is ideal for application engineers who can use the methods described to solve specific engineering problems It is also a valuable reference for post graduates and researchers working in evolutionary computation design optimization and artificial intelligence Researchers in the optimization field or engineers and managers involved in operations research will also find the book a helpful introduction to the topic **Optical Fiber Sensors for loT and Smart Devices** Maria de Fátima F. Domingues,Ayman Radwan,2017-03-20 This brief provides a review of the evolution of optical fiber sensing solutions and related applications Unique production methods are presented and discussed highlighting their evolution and analyzing their complexity Under this scope this brief presents the existing silica optical fiber sensors and polymer optical fiber sensors solutions comparing its field of action sensitivity accuracy complexity of manufacture and economic cost Special attention is given to low cost production methods This brief evaluates the different existing techniques assessing the accuracy and suitability of these sensors for possible Internet of Things IoT integration in different considered scenarios Critical analytical techniques also covered in this brief are expected to play a key role in the world of IoT and the smart city of tomorrow **Virtual Agents & Avatars** Nava A. Shaked,Detlev Artelt,2015-08-14 The book provides an look at the role of Avatars and Virtual Agents in the delivery of healthcare It also closely examines the rate of patient satisfaction with such avatars and virtual agents at various stages of healthcare delivery This book discusses the evolution of health care with respect to customer service The author then covers the industry changes in respect to patient care provider relations customer satisfaction Presents a look at how content and technological aspects must be taken into consideration for design usability purposes **Robot Memetics** Walt Truszkowski,Christopher Rouff,Mohammad Akhavannik,Edward Tunstel,2020 This book provides a novel perspective on the concept of memetics as applied to the development and evolution of intelligent robots and robotic communities cultures It provides a framework for the emergence of a hybrid community of people and intelligent robots collaborating to realize mutual benefits and scientific objectives It aims to show that as the hybrid community emerges so does its culture Once this foundational work is done the book illustrates the robot memetic ideas in the context of a space exploration scenario based on the development and operation of a human robot settlement on Mars

Evolution of Engineering and Information Systems and Their Applications Lakhmi C. Jain,1999-09-24 Worldwide interest in the applications of evolutionary computing techniques to the design of engineering and information systems grows each day Pattern recognition control systems factory scheduling automation generation of computer programs and the design of intelligent paradigms all benefit from evolutionary techniques their potential applications indeed seem limited only by the imaginations of scientists and engineers This is an area of intensive research and development and evolutionary computing techniques are themselves constantly evolving It becomes important then that computer scientists and

applications engineers have a working knowledge of the techniques stay abreast of recent advances and have the opportunity to incorporate them into their own systems and designs Evolution of Engineering and Information Systems and Their Applications fills this need by providing an overview of the field and offering state of the art reviews of the most important techniques and applications of evolutionary computing The top experts from around the world discuss developments in genetic algorithms genetic programming and evolutionary strategies and applications including VLSI CAD robot sensors neural networks and fuzzy classification systems This is a new and very hot field yet there are few if any resources that document and disseminate its advances With Evolution of Engineering and Information Systems and Their Applications you have the opportunity to learn from the leading authorities use these powerful techniques to improve your own systems and help evolutionary computing reach its nearly boundless potential *McGraw-Hill Series in Electrical Engineering* ,1984*

The Emerging Domain of Cooperating Objects Pedro José Marron,Stamatis Karnouskos,Daniel Minder,Aníbal Ollero,2011-01-24 There are a number of different system concepts that have gained much relevance in the area of embedded systems over the past couple of years First there is the classic concept of embedded systems where the focus is on control systems for physical processes Secondly the notion of pervasive computing has evolved where the vision foresees everyday objects having some form of computation capacity and in most cases sensing and communication facilities Thirdly the notion of wireless sensor networks has arisen where small computing devices are able to sense their environment and cooperate in order to achieve a well defined goal These three types of quite diverse systems share a lot of commonalities on the one hand and on the other hand have some complementary aspects in common that make a combination of these systems into a coherent system vision promising In particular the important notions of control heterogeneity wireless communication dynamic and ad hoc nature and cost are prevalent to various degrees in each of these systems A future system concept needs to combine the strong points of all three system concepts in at least these functional aspects It has to provide support for the control of physical processes like today s embedded systems do have as good support for device heterogeneity and spontaneity of usage as required by pervasive and ubiquitous computing approaches and has to be as cost efficient and wirelessly agile as wireless sensor networks are These new systems consist therefore of individual entities or objects that jointly strive to reach a common goal which will typically be a goal in sensing or control and are dynamically and loosely federating themselves for cooperation taking care not to overtax their available resources This book presents a roadmap to these concepts which are summarized as cooperating objects **Evolutionary Design by Computers** Peter Bentley,1999-05-28 Evolutionary Design By Computers offers an enticing preview of the future of computer aided design Design by Darwin Lawrence J Fogel President Natural Selection Inc Evolutionary design by computers is the major revolution in design thinking of the 20th century and this book is the best introduction available Professor John Frazer Swire Chair and Head of School of Design the Hong Kong Polytechnic University Author of An Evolutionary Architecture Peter Bentley has

assembled and edited an important collection of papers that demonstrate convincingly the utility of evolutionary computation for engineering solutions to complex problems in design David B Fogel Editor in Chief IEEE Transactions on Evolutionary Computation Some of the most startling achievements in the use of computers to automate design are being accomplished by the use of evolutionary search algorithms to evolve designs Evolutionary Design By Computers provides a showcase of the best and most original work of the leading international experts in Evolutionary Computation Engineering Design Computer Art and Artificial Life By bringing together the highest achievers in these fields for the first time including a foreword by Richard Dawkins this book provides the definitive coverage of significant developments in Evolutionary Design This book explores related sub areas of Evolutionary Design including design optimization creative design the creation of art artificial life It shows for the first time how techniques in each area overlap and promotes the cross fertilization of ideas and methods

Advances in Evolutionary and Deterministic Methods for Design, Optimization and Control in Engineering and Sciences António Gaspar-Cunha,Jacques Periaux,Kyriakos C. Giannakoglou,Nicolas R. Gauger,Domenico Quagliarella,David Greiner,2020-11-24 This book presents improved and extended versions of selected papers from EUROGEN 2019 a conference with interest on developing or applying evolutionary and deterministic methods in optimization of design and emphasizing on industrial and societal applications   Ternary Networks Ilya Gertsbakh,Yoseph Shpungin,Radislav Vaisman,2014-04-23 Ternary means based on three This book deals with reliability investigations of networks whose components subject to failures can be in three states up down and middle mid contrary to traditionally considered networks having only binary up down components Extending binary case to ternary allows to consider more realistic and flexible models for communication flow and supply networks   **Introduction to Evolutionary Algorithms** Xinjie Yu,Mitsuo Gen,2010-06-10 Evolutionary algorithms are becoming increasingly attractive across various disciplines such as operations research computer science industrial engineering electrical engineering social science and economics Introduction to Evolutionary Algorithms presents an insightful comprehensive and up to date treatment of evolutionary algorithms It covers such hot topics as genetic algorithms differential evolution swarm intelligence and artificial immune systems The reader is introduced to a range of applications as Introduction to Evolutionary Algorithms demonstrates how to model real world problems how to encode and decode individuals and how to design effective search operators according to the chromosome structures with examples of constraint optimization multiobjective optimization combinatorial optimization and supervised unsupervised learning This emphasis on practical applications will benefit all students whether they choose to continue their academic career or to enter a particular industry Introduction to Evolutionary Algorithms is intended as a textbook or self study material for both advanced undergraduates and graduate students Additional features such as recommended further reading and ideas for research projects combine to form an accessible and interesting pedagogical approach to this widely used discipline

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