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Circuits and Networks CIRCUITS AND NETWORKS: ANALYSIS AND SYNTHESIS Circuits and Networks Interconnection Networks Circuits & Networks 4E
Circuits & Networks,3E Network Analysis Artificial Intelligence for Smart Healthcare Interconnection Networks Network Analysis, 2E (Jntu Series)
Information-Theoretic Aspects of Neural Networks Proceedings of Fifth International Congress on Information and Communication Technology Advances in
Distributed Computing and Machine Learning India's Global Wealth Club Pervasive Computing and Social Networking Advances in Selected Artificial
Intelligence Areas Computing in Networks Neural Network Modeling Encyclopedia of Parallel Computing 5G — LTE/ IoT 5G —
Inventive Computation and Information Technologies Data Science and Applications Advances in Computing and Network Communications Advanced
Information Networking and Applications Comprehensive Guide to Heterogeneous Networks Nucleation and Atmospheric Aerosols 1996 New Frontiers in
Graph Theory Computational Intelligence and Data Analytics International Conference on Cyber Security, Privacy and Networking (ICSPN 2022) Sustainable
Science and Intelligent Technologies for Societal Development Infomatic Practices Energy Systems, Drives and Automations 21st European Symposium on
Computer Aided Process Engineering Futuristic Communication and Network Technologies Multi-disciplinary Trends in Artificial Intelligence Mobile Networks
and Management Optical WDM Networks Applications of Polymers in Drug Delivery Metropolitan Area WDM Networks Comparitive Performance Study Of
Routing Protocols in Wireless Sensor Network

Circuits and Networks

2006

part of the mcgraw hill core concepts in electrical engineering series circuits and networks analysis and synthesis is designed as a textbook for an introductory circuits course at the intermediate undergraduate level the book may also be appealing to a non major survey course in electrical engineering course as well a primary goal in circuits and networks is to establish a firm understanding of the basic laws of electrical circuits and to provide students with a working knowledge of the commonly used methods of analysis in electrical engineering the text assumes no mathematical knowledge making it easy for students to immediately jump into circuit analysis in addition all of the must have s for a circuits text such as an extensive introduction to pspice are present in this book about the core concepts in electrical engineering series as advances in networking and communications bring the global academic community even closer together it is essential that textbooks recognize and respond to this shift it is in this spirit that we will publish textbooks in the mcgraw hill core concepts in electrical engineering series the series will offer textbooks for the global electrical engineering curriculum that are reasonably priced innovative dynamic and will cover fundamental subject areas studied by electrical and computer engineering students written with a global perspective and presenting the latest in technological advances these books will give students of all backgrounds a solid foundation in key engineering subjects

CIRCUITS AND NETWORKS: ANALYSIS AND SYNTHESIS

1999

primarily this text aims at establishing a firm understanding of the basic laws of electric circuits and developing a working knowledge of methods of analysis used most frequently in electrical engineering this book also provides a comprehensive insight

Circuits and Networks

2010

foreword foreword to the first printing preface chapter 1 introduction chapter 2 message switching layer chapter 3 deadlock livelock and starvation chapter 4 routing algorithms chapter 5 collectivecommunicationsupport chapter 6 fault tolerant routing chapter 7 network architectures chapter 8 messaging layer software chapter 9 performance evaluation appendix a formal definitions for deadlock avoidance appendix b acronyms references index

Interconnection Networks

2003

this book caters to a course on circuits and networks with coverage of both analysis and synthesis lucid language fundamental discussions and illustrative examples are some of the excellent features of this text there are numerous solved examples employing the step wise problem solving approach which helps in easy grasping of the concepts by the students the numericals employ both ac and dc methods of analysis multiple choice questions and practice

problems have been provided in plenty and are of graded challenge levels helping the students to prepare for competitive examinations pspace problems have been incorporated to help in simulation

Circuits & Networks 4E

2010

this book provides information on interdependencies of medicine and telecommunications engineering and how the two must rely on each other to effectively function in this era the book discusses new techniques for medical service improvisation such as clear cut views on medical technologies the authors provide chapters on communication essentiality in healthcare processing of medical amenities using medical images the importance of data and information technology in medicine and machine learning and artificial intelligence in healthcare authors include researchers academics and professionals in the field

Circuits & Networks,3E

2006-12

information theoretic aspects of neural networks generally embodies parametric entities and conceptual bases pertinent to memory considerations and information storage information theoretic based cost functions and neurocybernetics and self organization existing studies only sparsely cover the entropy and or cybernetic aspects of neural information theoretic aspects of neural networks cohesively explores this burgeoning discipline covering topics such as shannon information and information dynamics neural complexity as an information processing system memory and information storage in the interconnected neural web extremum maximum and minimum information entropy neural network training non conventional statistical distance measures for neural network optimizations symmetric and asymmetric characteristics of information theoretic error metrics algorithmic complexity based representation of neural information theoretic parameters genetic algorithms versus neural information dynamics of neurocybernetics viewed in the information theoretic plane nonlinear information theoretic transfer function of the neural cellular units statistical mechanics neural networks and information theory semiotic framework of neural information processing and neural information flow fuzzy information and neural networks neural dynamics conceived through fuzzy information parameters neural information flow dynamics informatics of neural stochastic resonance information theoretic aspects of neural networks acts as an exceptional resource for engineers scientists and computer scientists working in the field of artificial neural networks as well as biologists applying the concepts of communication theory and protocols to the functioning of the brain the information in this book explores new avenues in the field and creates a common platform for analyzing the neural complex as well as artificial neural networks

Network Analysis

1971

this book gathers selected high quality research papers presented at the fifth international congress on information and communication technology held at brunel university london on february 20 21 2020 it discusses emerging topics pertaining to information and communication technology ict for managerial applications e governance e agriculture e education and computing technologies the internet of things iot and e mining written by respected experts and researchers working on ict the book offers a valuable asset for young researchers involved in advanced studies

Artificial Intelligence for Smart Healthcare

2023-06-09

this book presents recent advances in the field of distributed computing and machine learning along with cutting edge research in the field of internet of things iot and blockchain in distributed environments it features selected high quality research papers from the first international conference on advances in distributed computing and machine learning icadcml 2020 organized by the school of information technology and engineering vit vellore india and held on 30 31 january 2020

Interconnection Networks

1992

the indian entrepreneur is spearheading india s advance towards the forefront of the world economy this book reviews and retraces the formidable path of those individuals who have spurred the growth of indian businesses and are at the heart of india s economic fabric today be they first or second wave businessmen and women they stand out by their creativity sharp mindedness and hard work and self confidence they have opened a new chapter in india s history by propelling their businesses into internationally competitive multinationals and are sources of inspiration and hope for the young citizens of india colette mathur senior advisor to the world economic forum for india co president of the euroindia centre bi india s global wealth club is a fascinating read on today s india and what it can offer for the future it provides rich insights on the confusing topic of what makes india tick by describing it through the minds and intellects of indian business leaders from a wide spectrum of industries rama bijapurkar author of winning in the indian market understanding the transformation of consumer india mr hiscock s book will prove an essential resource for anybody contemplating venturing into the highly lucrative but deeply complex indian marketplace the industry case studies and personal profiles hold valuable and often unmatched insights into the financial secrets of the subcontinent s restive tiger grant holloway managing editor the australian online

Network Analysis, 2E (Jntu Series)

2006-08-01

the book features original papers from international conference on pervasive computing and social networking icpcsn 2021 organized by nsit salem india during 19 20 march 2021 it covers research works on conceptual constructive empirical theoretical and practical implementations of pervasive computing and social networking methods for developing more novel ideas and innovations in the growing field of information and communication technologies

Information-Theoretic Aspects of Neural Networks

2020-09-23

as new technological challenges are perpetually arising artificial intelligence research interests are focusing on the incorporation of improvement abilities into machines in an effort to make them more efficient and more useful recent reports indicate that the demand for scientists with artificial intelligence

skills significantly exceeds the market availability and that this shortage will intensify further in the years to come a potential solution includes attracting more women into the field as women currently make up only 26 percent of artificial intelligence positions in the workforce the present book serves a dual purpose on one hand it sheds light on the very significant research led by women in areas of artificial intelligence in hopes of inspiring other women to follow studies in the area and get involved in related research on the other hand it highlights the state of the art and current research in selected artificial intelligence areas and applications the book consists of an editorial note and an additional thirteen 13 chapters all authored by invited women researchers who work on various artificial intelligence areas and stand out for their significant research contributions in more detail the chapters in the book are organized into three parts namely i advances in artificial intelligence paradigms ii advances in artificial intelligence applications and iii recent trends in artificial intelligence areas and applications this research book is directed towards professors researchers scientists engineers and students in artificial intelligence related disciplines it is also directed towards readers who come from other disciplines and are interested in becoming versed in some of the most recent artificial intelligence based technologies an extensive list of bibliographic references at the end of each chapter guides the readers to probe further into the artificial intelligence areas of interest to them

Proceedings of Fifth International Congress on Information and Communication Technology

2020-09-30

neural network modeling offers a cohesive approach to the statistical mechanics and principles of cybernetics as a basis for neural network modeling it brings together neurobiologists and the engineers who design intelligent automata to understand the physics of collective behavior pertinent to neural elements and the self control aspects of neurocybernetics the theoretical perspectives and explanatory projections portray the most current information in the field some of which counters certain conventional concepts in the visualization of neuronal interactions

Advances in Distributed Computing and Machine Learning

2020-06-11

containing over 300 entries in an a z format the encyclopedia of parallel computing provides easy intuitive access to relevant information for professionals and researchers seeking access to any aspect within the broad field of parallel computing topics for this comprehensive reference were selected written and peer reviewed by an international pool of distinguished researchers in the field the encyclopedia is broad in scope covering machine organization programming languages algorithms and applications within each area concepts designs and specific implementations are presented the highly structured essays in this work comprise synonyms a definition and discussion of the topic bibliographies and links to related literature extensive cross references to other entries within the encyclopedia support efficient user friendly searchers for immediate access to useful information key concepts presented in the encyclopedia of parallel computing include laws and metrics specific numerical and non numerical algorithms asynchronous algorithms libraries of subroutines benchmark suites applications sequential consistency and cache coherency machine classes such as clusters shared memory multiprocessors special purpose machines and dataflow machines specific machines such as cray supercomputers ibm s cell processor and intel s multicore machines race detection and auto parallelization parallel programming languages synchronization primitives collective operations message passing libraries checkpointing and operating systems topics covered speedup efficiency isoefficiency redundancy amdahls law computer architecture concepts parallel machine designs benchmarks parallel programming concepts design algorithms parallel applications this authoritative reference will be published in two formats print and online the online edition features hyperlinks to cross references and to additional significant research related subjects supercomputing high performance computing distributed computing

applications

Neural Network Modeling

2018-02-06

comprehensive guide to heterogeneous networks discusses the fundamental motivations behind this cutting edge development along with a brief discussion on the diverse definitions of hns the future of heterogeneous wireless networks hwns is covered including test cases cost configuration economic benefits and basic challenges other sections cover the topology management method in context of heterogeneous sensor nodes with diverse communication and sensing range in addition an outline of the pros and cons of the clustering criteria in hwsns and taxonomy are summarized and provide futuristic research directions final sections discuss the future evolution of hns and their implementations in diverse applications this is an essential reference book for advanced students on courses in wireless communications clinical engineering and networking it will also be of interest to researchers network planners technical managers and other professionals in these fields discusses the most important problems challenges and issues which arise when designing real time heterogeneous networks for diverse scenarios represents the unique features of heterogeneous sensor networks giving the end user a better understanding of the environment provides an overview of real time performance issues in heterogeneous networks specifically multi tasking multi level scheduling localization and security issues includes applications of heterogeneous networks in diverse fields and focuses on the convergence of heterogeneous wireless networks for 5g

Encyclopedia of Parallel Computing

2014-07-08

this volume is a collection of papers presented at the 14th international conference on nucleation and atmospheric aerosols helsinki 26 30 august 1996 the first conference of this series took place in dublin 1955 second basel and locarno 1956 third cambridge 1958 fourth frankfurt am main and heidelberg 1961 fifth clermont ferrand and toulouse 1963 sixth albany and university park 1966 seventh prague and vienna 1969 eighth leningrad 1973 ninth galway 1977 tenth hamburg 1981 eleventh budapest 1984 twelfth vienna 1988 thirteenth salt lake city 1992 the atmospheric aerosol conference has been held jointly with the nucleation symposium since 1988 in vienna in order to stimulate contacts between researchers in these closely related fields the broad nature of the meeting and the scientific program resulted in 32 countries submitting papers for presentation covering both experimental and theoretical studies these papers are divided amongst the chapters on nucleation stratospheric aerosols and ice nucleation tropospheric aerosols and aerosol cloud climate interaction in addition to these contributed papers invitations to present a plenary lecture on topics of particular current interest were accepted by p j crutzen j gras j l katz a a lushnikov d oxtoby j e penner th peter f raes s e schwartz r strey and g vali these plenary papers together with the contributed papers provide a well balanced perspective of the current research over the entire field and highlight some important issues

5G — LTE/ IoT 5G —

2018-09-21

nowadays graph theory is an important analysis tool in mathematics and computer science because of the inherent simplicity of graph theory it can be used to model many different physical and abstract systems such as transportation and communication networks models for business administration

political science and psychology and so on the purpose of this book is not only to present the latest state and development tendencies of graph theory but to bring the reader far enough along the way to enable him to embark on the research problems of his own taking into account the large amount of knowledge about graph theory and practice presented in the book it has two major parts theoretical researches and applications the book is also intended for both graduate and postgraduate students in fields such as mathematics computer science system sciences biology engineering cybernetics and social sciences and as a reference for software professionals and practitioners

Inventive Computation and Information Technologies

2022-01-18

the book presents high quality research papers presented at the international conference on computational intelligence and data analytics iccida 2022 organized by the department of information technology vasavi college of engineering hyderabad india in january 2022 iccida provides an excellent platform for exchanging knowledge with the global community of scientists engineers and educators this volume covers cutting edge research in two prominent areas computational intelligence and data analytics and allied research areas

Data Science and Applications

2021-04-20

this book covers selected high quality research papers presented in the international conference on cyber security privacy and networking icspn 2022 organized during september 09 11 2022 in thailand in online mode the objective of icspn 2022 is to provide a premier international platform for deliberations on strategies recent trends innovative approaches discussions and presentations on the most recent cyber security privacy and networking challenges and developments from the perspective of providing security awareness and its best practices for the real world moreover the motivation to organize this conference is to promote research by sharing innovative ideas among all levels of the scientific community and to provide opportunities to develop creative solutions to various security privacy and networking problems

Advances in Computing and Network Communications

2020-03-27

in today's world the pressing challenges of sustainable development and societal progress demand innovative solutions that harness the power of science and technology from climate change to resource depletion and social inequalities the urgency to find sustainable intelligent and ethical approaches has never been greater academic scholars and researchers play a crucial role in driving these advancements but often struggle to find comprehensive resources that bridge the gap between theory and real world applications the need of the hour is a definitive guide that unites expertise from diverse disciplines and offers practical insights into leveraging sustainable science and intelligent technologies to create meaningful societal development sustainable science and intelligent technologies for societal development edited by brojo kishore mishra of giet university india is the much awaited solution to the challenges faced by academic scholars and researchers this persuasive book brings together an esteemed collection of leading experts academics and industry professionals all dedicated to addressing global challenges through the lens of applied sciences and intelligent technology applications by presenting a wide range of innovative topics such as renewable energy smart healthcare sustainable finance and more the book serves as a

comprehensive resource that empowers scholars with actionable knowledge and innovative ideas the book not only covers the theoretical aspects but also delves into the ethical considerations essential in shaping the future in a world increasingly dependent on technology it is vital to ensure that societal development aligns with principles of inclusivity fairness and environmental responsibility with a focus on the united nations sustainable development goals sdgs the book provides a clear roadmap for scholars to contribute meaningfully to global progress by offering concrete examples and real world case studies the book enables researchers to grasp the potential impact of their work fostering collaborations that transcend traditional disciplinary boundaries sustainable science and intelligent technologies for societal development is the go to resource for academic scholars scientists researchers innovators industry professionals and students who seek to be effective in the world as a comprehensive guide that blends sustainable science and intelligent technologies with ethical considerations this book equips its readers to create tangible solutions that address pressing global challenges through collective knowledge and interdisciplinary collaboration this book stands as a beacon of hope and inspiration for driving meaningful societal development paving the way for a more sustainable and prosperous future

Advanced Information Networking and Applications

2022-09-20

a series of book of computers the ebook version does not contain cd

Comprehensive Guide to Heterogeneous Networks

1996-08-13

this book covers the proceedings of the 4th international conference on energy systems drives and automations esda2021 it comprises interesting topics in renewable energy power management drives of electrical machines and automation it also discusses different tools and techniques to match the conference theme this book also comprehensively discusses related tools and techniques and is a valuable resource for researchers and professionals in electrical and mechanical engineering disciplines

Nucleation and Atmospheric Aerosols 1996

2012-03-02

the european symposium on computer aided process engineering escape series presents the latest innovations and achievements of leading professionals from the industrial and academic communities the escape series serves as a forum for engineers scientists researchers managers and students to present and discuss progress being made in the area of computer aided process engineering cape european industries large and small are bringing innovations into our lives whether in the form of new technologies to address environmental problems new products to make our homes more comfortable and energy efficient or new therapies to improve the health and well being of european citizens moreover the european industry needs to undertake research and technological initiatives in response to humanity s grand challenges described in the declaration of lund namely global warming tightening supplies of energy water and food ageing societies public health pandemics and security thus the technical theme of escape 21 will be process systems approaches for addressing grand challenges in energy environment health bioprocessing nanotechnologies

New Frontiers in Graph Theory

2022-09-01

this book presents select proceedings of the virtual international conference on futuristic communication and network technologies vicfnt 2021 it covers various domains in communication engineering and networking technologies this volume comprises recent research in areas like cyber physical systems acoustics speech video signal processing and the internet of things this book is a collated work of academicians researchers and industry personnel from the international arena this book will be useful for researchers professionals and engineers working in the core areas of electronics and communication

Computational Intelligence and Data Analytics

2023-02-20

the 47 full papers and 24 short papers included in this book were carefully reviewed and selected from 245 submissions these articles cater to the most contemporary and happening topics in the fields of ai that range from intelligent recommendation systems game theory computer vision reinforcement learning social networks and generative ai to conversational and large language models they are organized into four areas of research theoretical contributions cognitive computing models computational intelligence based algorithms and ai applications

International Conference on Cyber Security, Privacy and Networking (ICSPN 2022)

2023-09-18

this book constitutes the thoroughly refereed proceedings of the fourth international conference on mobile networks and management monami 2012 held in hamburg germany in september 2012 the 15 revised full papers presented were carefully selected and reviewed from numerous submissions in addition two well received workshops are presented the second monami workshop on smart objects and the first open connectivity services workshop organized in cooperation with the eu fp7 sail project all in all 25 papers were orally presented at the conference the papers are organized in five topical sections mobile networks heterogeneous networks wireless communications smart objects and iot applications and future networks

Sustainable Science and Intelligent Technologies for Societal Development

2023-09-21

optical wdm networking technology is spearheading a bandwidth revolution in the networking infrastructure being developed for the next generation internet rapid advances in optical components have enabled the transition from point to point wdm links to all optical networking optical wdm networks principles and practice presents some of the most important challenges facing the optical networking community along with some suggested solutions earlier textbooks in optical networking have a narrower perspective and rapidly advancing research has created the need for fresh and current information on problems and issues in the field the volume editors and contributing authors have endeavoured to capture a substantial subset of the key problems and known solutions to these problems all of the chapters are original contributions from leading international researchers the chapters address a wide variety

of topics including the state of the art in wdm technology physical components that make up wdm fiber optic networks medium access protocols wavelength routed networks optical access networks network management and performance evaluation of wavelength routing networks the chapters also survey critical points in past research and tackle more recent problems practitioners and network product engineers interested in current state of the art information beyond textbook type coverage and graduate students commencing research in this area will appreciate the concise and pertinent information presented herein

Infomatic Practices

2011-07-21

applications of polymers in drug delivery second edition provides a comprehensive resource for anyone looking to understand how polymeric materials can be applied to current new and emerging drug delivery applications polymers play a crucial role in modulating drug delivery and have been fundamental in the successful development of many novel drug delivery systems this book describes the development of polymeric systems ranging from conventional dosage forms to the most recent smart systems regulatory and intellectual property aspects as well as the clinical applicability of polymeric drug delivery systems are also discussed the chapters are organized by specific delivery route offering methodical and detailed coverage throughout this second edition has been thoroughly revised to include the latest developments in the field this is an essential book for researchers scientists and advanced students in polymer science drug delivery pharmacology pharmaceuticals materials science tissue engineering nanomedicine chemistry and biology in industry this book supports scientists r d and other professionals working on polymers for drug delivery applications explains how polymers can be prepared and utilized for all major drug delivery routes presents the latest advances including drug targeting polymeric micelles and polymersomes and the delivery of biologicals and nucleic acid therapeutics includes appendices with in depth information on pharmaceutical properties of polymers and regulatory aspects

Energy Systems, Drives and Automations

2023-06-22

this extensive volume provides a comprehensive and technically detailed overview of the latest metropolitan area wdm network experimental systems architectures and access protocols readers will benefit from the thorough overview and gain an in depth understanding of current and next generation metro wdm networks

21st European Symposium on Computer Aided Process Engineering

2023-06-23

master s thesis from the year 2012 in the subject computer science technical computer science grade 70 griffith college dublin faculty of computing course msc computing language english abstract modern wireless sensor network can be expanded into large geographical areas via cheap sensor devices which can sustain themselves itself with very a low power usage the networking capability enables these sensor nodes to incorporate collaborates and coordinates with among each other and this is a fundamental shift in the field of networks which differentiates sensor network nodes form other networks such as ip datagram ad hoc and so on currently routing in the wireless sensor network faces multiple challenges such as new scalability coverage packet loss interference real time audio and video real time streaming harsh weather environments energy constraints and so forth network routing can be called

an amalgamation of routing protocol and routing algorithm the job of the routing protocols is to provide a cohesive view of network nodes topology while routing algorithm provides the intelligence in terms of optimal path calculation we set out to conduct a detailed study of routing protocols in a ip datagram wireless ad hoc and sensor network and also accomplished routing protocols comparison against the chosen network performance factor dropped packet ratio routing protocols play an important role in modern wireless communication networks routing protocols performance can be measured by a number of factors such as packet dropped rate and so forth rumour and optimal spinal routing algorithms are compared using shox simulation and the results and analysis are based upon the simulation experiments

Futuristic Communication and Network Technologies

2013-04-15

Multi-disciplinary Trends in Artificial Intelligence

2000-03-31

Mobile Networks and Management

2020-10-02

Optical WDM Networks

2012-12-06

Applications of Polymers in Drug Delivery

2012-12-27

Metropolitan Area WDM Networks

Comparitive Performance Study Of Routing Protocols in Wireless Sensor Network

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