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Transportation Networks, Technical Report Socio-Technical Networks Visual Information Processing in Wireless Sensor Networks: Technology, Trends and Applications Technical Report The Future Internet Artificial Neural Networks for the Modelling and Fault Diagnosis of Technical Processes Mesometeorological Analysis of Atmospheric Phenomena : Quarterly Technical Report Communications: Wireless in Developing Countries and Networks of the Future U.S. Long Distance Fiber Optic Networks: Technology, Evolution and Advanced Concepts Computer Sciences Technical Report Knowledge Mining Using Intelligent Agents Sci-Tech Library Networks Within Organizations Energy and Spectrum Efficient Wireless Network Design Internetworking and Computing Over Satellite Networks Body Area Networks Erzeugungsanlagen am Niederspannungsnetz - technische Mindestanforderungen für Anschluss und Parallelbetrieb von Erzeugungsanlagen am Niederspannungsnetz Location Management and Routing in Mobile Wireless Networks Magnetic Resonance Engineering Laboratory Technical Report Advances in Wireless, Mobile Networks and Applications

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Technical Advisory Panel on the Digital Data Communications Network Parallel and Distributed Processing and Applications Smart Engineering System Design Wireless Sensor Networks 2014 International Conference on Computer, Network Interprocess Communication Protocols for Computer Networks Modeling and Simulation of Computer Networks and Systems Downtown Street Network Technical Report Security in Fixed and Wireless Networks Large-scale Distributed Systems and Energy Efficiency Security and Privacy in Communication Networks Proceedings of Computer Networking Symposium Modeling and Simulation in HPC and Cloud Systems Networking Communication and Data Knowledge Engineering Center for Complex Systems Research Technical Report Cognitive Radio, Mobile Communications and Wireless Networks World Congress on Neural Networks Dependable Computing Tutorial Local Network Technology Very Large Scale Integrated Circuits Technical Report Managing and Processing Big Data in Cloud Computing

Transportation Networks, Technical Report 1981

while there are sporadic journal articles on socio technical networks there s long been a need for an integrated resource that addresses concrete socio technical network stn design issues from algorithmic and engineering perspectives filling this need socio technical networks science and engineering design provides a complete introduction to the fundamentals of one

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of the hottest research areas across the social sciences networking and computer science including its definition historical background and models covering basic stn architecture from a physical technological perspective the book considers the system design process in a typical stn including inputs processes actions and outputs products it covers current applications including transportation networks energy systems tele healthcare financial networks and the world wide a group of stn expert contributors addresses privacy and security topics in the interdependent context of critical infrastructure which include risk models trust models and privacy preserving schemes covers the physical and technological designs in a typical stn considers stn applications in popular fields such as healthcare and the virtual community details a method for mapping and measuring complexity uncertainty and interactions among stn components the book examines the most important stn models including graph theory inferring agent dynamics decision theory and information mining it also explains structural studies behavioral studies and agent actor system studies and policy studies in different stn contexts complete with in depth case studies this book supplies the practical insight needed to address contemporary stn design issues

Socio-Technical Networks 2010-11-17

this book provides a central source of reference on visual information processing in wireless sensor network environments and its technology application and society issues

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Visual Information Processing in Wireless Sensor Networks: Technology, Trends and Applications

2011-09-30

co editors of the volume are federico Álvarez alessandro bassi michele bezzi laurent ciavaglia frances cleary petros daras hermann de meer panagiotis demestichas john domingue theo g kanter stamatis karnouskos srdjan krčo laurent lefevre jasper lentjes man sze li paul malone antonio manzalini volkmar lotz henning müller karsten oberle noel e o connor nick papanikolaou dana petcu rahim rahmani danny raz gaël richards elio salvadori susana sargento hans schaffers joan serrat burkhard stiller antonio f skarmeta kurt tutschku theodore zahariadis the internet is the most vital scientific technical economic and societal set of infrastructures in existence and in operation today serving 2 5 billion users continuing its developments would secure much of the upcoming innovation and prosperity and it would underpin the sustainable growth in economic values and volumes needed in the future future internet infrastructures research is therefore a must the future internet assembly fia is a successful conference that brings together participants of over 150 research projects from several distinct yet interrelated areas in the european union framework programme 7 fp7 the research projects are grouped as follows the network of the future as infrastructure connecting and orchestrating the future internet of people computers devices content clouds

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and things cloud computing internet of services and advanced software engineering the public private partnership projects on future internet future internet research and experimentation fire the 26 full papers included in this volume were selected from 45 submissions they are organized in topical sections named software driven networks virtualization programmability and autonomic management computing and networking clouds internet of things and enabling technologies and economic incentives

Technical Report 1984

an unappealing characteristic of all real world systems is the fact that they are vulnerable to faults malfunctions and more generally unexpected modes of haviour this explains why there is a continuous need for reliable and universal monitoring systems based on suitable and effective fault diagnosis strategies this is especially true for engineering systems whose complexity is permanently growing due to the inevitable development of modern industry as well as the information and communication technology revolution indeed the design and operation of engineering systems require an increased attention with respect to availability reliability safety and fault tolerance thus it is natural that fault diagnosis plays a fundamental role in modern control theory and practice this is reflected in plenty of papers on fault diagnosis in many control oriented conferences and journals indeed a large amount of knowledge on model based fault diagnosis has been accumulated through scientific literature

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since the beginning of the 1970s as a result a wide spectrum of fault diagnosis techniques have been developed a major category of fault diagnosis techniques is the model based one where an analytical model of the plant to be monitored is assumed to be available

The Future Internet 2013-04-22

communications wireless in developing countries and networks of the future the present book contains the proceedings of two conferences held at the world computer congress 2010 in brisbane australia september 20 23 organized by the international federation for information processing ifip the third ifip tc 6 international conference on wireless communications and information technology for developing countries wcidt 2010 and the ifip tc 6 international network of the future conference nf 2010 the main objective of these two ifip conferences on communications is to provide a platform for the exchange of recent and original contributions in wireless networks in developing countries and networks of the future there are many exiting trends and developments in the communications industry several of which are related to advances in wireless networks and next generation internet it is commonly believed in the communications industry that a new generation should appear in the next ten years yet there are a number of issues that are being worked on in various industry research and development labs and universities towards enabling wireless high speed networks virtualization techniques smart networks high level security schemes etc we would like to

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thank the members of the program committees and the external reviewers and we hope these proceedings will be very useful to all researchers interested in the fields of wireless networks and future network technologies

Artificial Neural Networks for the Modelling and Fault Diagnosis of Technical Processes 2008-06-24

knowledge mining using intelligent agents explores the concept of knowledge discovery processes and enhances decision making capability through the use of intelligent agents like ants termites and honey bees in order to provide readers with an integrated set of concepts and techniques for understanding knowledge discovery and its practical utility this book blends two distinct disciplines data mining and knowledge discovery process and intelligent agents based computing swarm intelligence and computational intelligence for the more advanced reader researchers and decision policy makers are given an insight into emerging technologies and their possible hybridization which can be used for activities like dredging capturing distributions and the utilization of knowledge in their domain of interest i e business policy making etc by studying the behavior of swarm intelligence this book aims to integrate the computational intelligence paradigm and intelligent distributed agents architecture to optimize various engineering problems and efficiently represent knowledge

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from the large gamut of data contents theoretical foundations of knowledge mining and intelligent agent s dehuri s b cho the use of evolutionary computation in knowledge discovery the example of intrusion detection systems s x wu w banzhaf evolution of neural network and polynomial network b b misra et al design of alloy steels using multi objective optimization m chen et a an extended bayesian hapso intelligent method in intrusion detection system s dehuri s tripathy mining knowledge from network intrusion data using data mining techniques m panda m r patra particle swarm optimization for multi objective optimal operational planning of energy plants y fukuyama et al soft computing for feature selection a k jagadev et al optimized polynomial fuzzy swarm net for classification b b misra et al software testing using genetic algorithms m ray d p mohapatra readership researchers and professionals in the knowledge discovery industry keywords intelligent agent knowledge mining data mining knowledge discovery computational intelligence swarm intelligence evolutionary computationkey features addresses the various issues problems of knowledge discovery data mining tasks and the various design challenges by the use of different intelligent agents technologiescovers new and unique intelligent agents techniques computational intelligence swarm intelligence for knowledge discovery in databases and data mining to solve the tasks of different phases of knowledge discoveryhighlights data pre processing for knowledge mining and post processing of knowledge that is ignored by most of the authorsconsists of a collection of well organized chapters written by prospective authors who are actively engaged in this active area of research

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Mesometeorological Analysis of Atmospheric Phenomena : Quarterly Technical Report 1955

this fascinating volume offers thorough descriptions of sci tech library networks in which their members have a common sponsorship or ownership library networks exist in such great quantity and diversity now that it is not difficult to identify many types of them corporate library networks at t xerox and general electric and federal government networks nasa and fedline are the focus here as the authors present the history development and activities of these networks a library network for health sciences libraries that use oclc is also scrutinized

Communications: Wireless in Developing Countries and Networks of the Future 2010-08-06

covering the fundamental principles and state of the art cross layer techniques this practical guide provides the tools needed to design mimo and ofdm based wireless networks that are both energy and spectrum efficient technologies are introduced in parallel for both centralized and distributed wireless networks to give you a clear understanding of the similarities and differences between their energy and spectrum efficient designs which is essential for achieving the highest network energy saving without losing performance cutting

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edge green cellular network design technologies enabling you to master resource management for next generation wireless networks based on mimo and ofdm and detailed real world implementation examples are provided to guide your engineering design in both theory and practice whether you are a graduate student a researcher or a practitioner in industry this is an invaluable guide

U.S. Long Distance Fiber Optic Networks: Technology, Evolution and Advanced Concepts 1986

the emphasis of this text is on data networking internetworking and distributed computing issues the material surveys recent work in the area of satellite networks introduces certain state of the art technologies and presents recent research results in these areas

Computer Sciences Technical Report 1988

body area networks bans are networks of wireless sensors and medical devices embedded in clothing worn on or implanted in the body and have the potential to revolutionize healthcare by enabling pervasive healthcare however due to their critical applications affecting human health challenges arise when designing them to ensure they are safe for the user sustainable

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without requiring frequent battery replacements and secure from interference and malicious attacks this book lays the foundations of how bans can be redesigned from a cyber physical systems perspective cps to overcome these issues introducing cutting edge theoretical and practical techniques and taking into account the unique environment coupled characteristics of bans the book examines how we can re imagine the design of safe secure and sustainable bans it features real world case studies suggestions for further investigation and project ideas making it invaluable for anyone involved in pervasive and mobile healthcare telemedicine medical apps and other cyber physical systems

Knowledge Mining Using Intelligent Agents 2010-12-21

as wireless users have become increasingly mobile tracking their location and establishing communications links between them have become critical location management paging and routing are the key technologies for performing these crucial functions this comprehensive work examines past present and future advances in location management and routing protocols for both single hop and multi hop mobile wireless networks

Sci-Tech Library Networks Within Organizations 1988

this book constitutes the refereed proceedings of the third international conference on wireless mobile networks and applications wimoa 2011 and the first international conference on computer science engineering and applications iccsea 2011 held in dubai united arab emirates in may 2011 the book is organized as a collection of papers from wimoa 2011 and iccsea 2011 the 8 revised full papers presented in the wimoa 2011 part were carefully reviewed and selected from 63 submissions the 20 revised full papers presented in the iccsea 2011 part were carefully reviewed and selected from 110 submissions

Energy and Spectrum Efficient Wireless Network Design 2014-11-27

this book constitutes the refereed proceedings of the 5th international symposium on parallel and distributed processing and applications ispa 2007 held in niagara falls canada in august 2007 the 83 revised full papers presented together with three keynote are cover algorithms and applications architectures and systems datamining and databases fault tolerance and security middleware and cooperative computing networks as well as software and languages

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Internetworking and Computing Over Satellite Networks 2012-12-06

the newest volume in this series presents refereed papers in the following categories and their applications in the engineering domain neural networks complex networks evolutionary programming data mining fuzzy logic adaptive control pattern recognition smart engineering system design these papers are intended to provide a forum for researchers in the field to exchange ideas on smart engineering system design

Body Area Networks 2013-04-18

although there are many books available on wsns most are low level introductory books the few available for advanced readers fail to convey the breadth of knowledge required for those aiming to develop next generation solutions for wsns filling this void wireless sensor networks from theory to applications supplies comprehensive coverage of ws

Erzeugungsanlagen am Niederspannungsnetz - technische Mindestanforderungen für Anschluss und Parallelbetrieb von Erzeugungsanlagen am Niederspannungsnetz 2018

the objective of the 2014 international conference on computer network security and communication engineering cnsce2014 is to provide a platform for all researchers in the field of computer network security and communication engineering to share the most advanced knowledge from both academic and industrial world to communicate with each other about their experience and most up to date research achievements and to discuss issues and future prospects in these fields as an international conference mixed with academia and industry cnsce2014 provides attendees not only the free exchange of ideas and challenges faced by these two key stakeholders and encourage future collaboration between members of these groups but also a good opportunity to make friends with scholars around the world as the first session of the international conference on cnsce it covers topics related to computer network security and communication engineering cnsce2014 has attracted many scholars researchers and practitioners in these fields from various countries they take this chance to get together sharing their latest research achievements with each other it has also achieved great success

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by its unique characteristics and strong academic atmosphere as well as its authority

Location Management and Routing in Mobile Wireless Networks 2003

this thesis focuses on the design and analysis of interprocess communication protocols for networks of computers previous research has emphasized system performance at lower levels within the communication medium itself this work examines requirements and performance of protocols for communication between processes in the host computers attached to the communication system both the reliability and the efficiency of protocols are discussed reliability involves overcoming unreliable network transmission facilities to avoid loss duplication or out of order delivery of data reliability performance goals are defined and the correctness of different protocol mechanisms in achieving these goals is demonstrated consequences of protocol failures host crashes and problems of initializing control mechanisms required for reliable communication are also considered

Magnetic Resonance Engineering Laboratory Technical

Report 1994

modeling and simulation of computer networks and systems methodologies and applications introduces you to a broad array of modeling and simulation issues related to computer networks and systems it focuses on the theories tools applications and uses of modeling and simulation in order to effectively optimize networks it describes methodologies for modeling and simulation of new generations of wireless and mobiles networks and cloud and grid computing systems drawing upon years of practical experience and using numerous examples and illustrative applications recognized experts in both academia and industry discuss important and emerging topics in computer networks and systems including but not limited to modeling simulation analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks methodologies strategies and tools and strategies needed to build computer networks and systems modeling and simulation from the bottom up different network performance metrics including mobility congestion quality of service security and more modeling and simulation of computer networks and systems is a must have resource for network architects engineers and researchers who want to gain insight into optimizing network performance through the use of modeling and simulation discusses important and emerging topics in computer networks and systems including but not limited to modeling simulation analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks provides

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the necessary methodologies strategies and tools needed to build computer networks and systems modeling and simulation from the bottom up includes comprehensive review and evaluation of simulation tools and methodologies and different network performance metrics including mobility congestion quality of service security and more

Advances in Wireless, Mobile Networks and Applications 2011-06-11

introduces aspects on security threats and their countermeasures in both fixed and wireless networks advising on how countermeasures can provide secure communication infrastructures enables the reader to understand the risks of inappropriate network security what mechanisms and protocols can be deployed to counter these risks and how these mechanisms and protocols work

Technical Advisory Panel on the Digital Data Communications Network 1981

addresses innovations in technology relating to the energy efficiency of a wide variety of contemporary computer systems and networks with concerns about global energy

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consumption at an all time high improving computer networks energy efficiency is becoming an increasingly important topic large scale distributed systems and energy efficiency a holistic view addresses innovations in technology relating to the energy efficiency of a wide variety of contemporary computer systems and networks after an introductory overview of the energy demands of current information and communications technology ict individual chapters offer in depth analyses of such topics as cloud computing green networking both wired and wireless mobile computing power modeling the rise of green data centers and high performance computing resource allocation and energy efficiency in peer to peer p2p computing networks discusses measurement and modeling of the energy consumption method includes methods for energy consumption reduction in diverse computing environments features a variety of case studies and examples of energy reduction and assessment timely and important large scale distributed systems and energy efficiency is an invaluable resource for ways of increasing the energy efficiency of computing systems and networks while simultaneously reducing the carbon footprint

Parallel and Distributed Processing and Applications **2007-08-22**

this book constitutes the thoroughly refereed post conference proceedings of the 5th
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international icst conference securecomm 2009 held in september 2009 in athens greece the 19 revised full papers and 7 revised short papers were carefully reviewed and selected from 76 submissions the papers cover various topics such as wireless network security network intrusion detection security and privacy for the general internet malware and misbehavior sensor networks key management credentials and authentications as well as secure multicast and emerging technologies

Smart Engineering System Design 2005

this book consists of eight chapters five of which provide a summary of the tutorials and workshops organised as part of the chipset summer school high performance modelling and simulation for big data applications cost action on new trends in modelling and simulation in hpc systems which was held in bucharest romania on september 21 23 2016 as such it offers a solid foundation for the development of new generation data intensive intelligent systems modelling and simulation ms in the big data era is widely considered the essential tool in science and engineering to substantiate the prediction and analysis of complex systems and natural phenomena ms offers suitable abstractions to manage the complexity of analysing big data in various scientific and engineering domains unfortunately big data problems are not always easily amenable to efficient ms over hpc high performance computing further ms communities may lack the detailed expertise required to exploit the full potential of hpc

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solutions and hpc architects may not be fully aware of specific ms requirements the main goal of the summer school was to improve the participants practical skills and knowledge of the novel hpc driven models and technologies for big data applications the trainers who are also the authors of this book explained how to design construct and utilise the complex ms tools that capture many of the hpc modelling needs from scalability to fault tolerance and beyond in the final three chapters the book presents the first outcomes of the school new ideas and novel results of the research on security aspects in clouds first prototypes of the complex virtual models of data in big data streams and a data intensive computing framework for opportunistic networks it is a valuable reference resource for those wanting to start working in hpc and big data systems as well as for advanced researchers and practitioners

Wireless Sensor Networks 2013-08-28

data science data engineering and knowledge engineering requires networking and communication as a backbone and have wide scope of implementation in engineering sciences keeping this ideology in preference this book includes the insights that reflect the advances in these fields from upcoming researchers and leading academicians across the globe it contains high quality peer reviewed papers of international conference on recent advancement in computer communication and computational sciences

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janardan rai nagar rajasthan vidyapeeth university udaipur india during 25 26 november 2016 the volume covers variety of topics such as advanced communication networks artificial intelligence and evolutionary algorithms advanced software engineering and cloud computing image processing and computer vision and security the book will help the perspective readers from computer industry and academia to derive the advances of next generation communication and computational technology and shape them into real life applications

2014 International Conference on Computer, Network 2014-03-12

this book provides an overview of the latest research and development of new technologies for cognitive radio mobile communications and wireless networks the contributors discuss the research and requirement analysis and initial standardization work towards 5g cellular systems and the capacity problems it presents they show how cognitive radio with the capability to flexibly adapt its parameters has been proposed as the enabling technology for unlicensed secondary users to dynamically access the licensed spectrum owned by legacy primary users on a negotiated or an opportunistic basis they go on to show how cognitive radio is now perceived in a much broader paradigm that will contribute to solve the resource

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allocation problem that 5g requirements raise the chapters represent hand selected expanded papers from eai sponsored and hosted conferences such as the 12th eai international conference on mobile and ubiquitous systems the 11th eai international conference on heterogeneous networking for quality reliability security and robustness the 10th international conference on cognitive radio oriented wireless networks the 8th international conference on mobile multimedia communications and the eai international conference on software defined wireless networks and cognitive technologies for iot

Interprocess Communication Protocols for Computer Networks 1976

this book constitutes the thoroughly refereed proceedings of the 14 the european workshop on dependable computing ewdc 2013 held in coimbra portugal in may 2013 the 9 full papers and 6 short papers presented were carefully reviewed and selected from 24 submissions also included in the volume are 6 fast abstracts presenting work in progress or new ideas in the dependability area the papers are organized in topical sections on wireless sensor networks cloud computing and services testing and fault detection fault injection and benchmarking and dependable and secure computing

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Modeling and Simulation of Computer Networks and Systems *2015-04-21*

big data has presented a number of opportunities across industries with these opportunities come a number of challenges associated with handling analyzing and storing large data sets one solution to this challenge is cloud computing which supports a massive storage and computation facility in order to accommodate big data processing managing and processing big data in cloud computing explores the challenges of supporting big data processing and cloud based platforms as a proposed solution emphasizing a number of crucial topics such as data analytics wireless networks mobile clouds and machine learning this publication meets the research needs of data analysts it professionals researchers graduate students and educators in the areas of data science computer programming and it development

Downtown Street Network Technical Report *1987*

Security in Fixed and Wireless Networks 2016-08-05

***Large-scale Distributed Systems and Energy Efficiency
2015-03-05***

***Security and Privacy in Communication Networks
2009-10-13***

Proceedings of Computer Networking Symposium 1981

Modeling and Simulation in HPC and Cloud Systems

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**Networking Communication and Data Knowledge
Engineering 2017-11-02**

**Center for Complex Systems Research Technical Report
1991**

**Cognitive Radio, Mobile Communications and Wireless
Networks 2018-07-30**

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World Congress on Neural Networks 1993

Dependable Computing 2013-11-13

Tutorial Local Network Technology 1983

**Very Large Scale Integrated Circuits Technical Report
1992**

**Managing and Processing Big Data in Cloud Computing
2016-01-07**