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Enabling Technologies and Architectures for Next-Generation Networking Capabilities Implementing Data Analytics and Architectures for Next Generation Wireless Communications Wireless Systems and Network Architectures in Next Generation Internet Neuro-inspired Computing for Next-gen AI: Computing Model, Architectures and Learning Algorithms Beyond-CMOS Technologies for Next Generation Computer Design Integrated Optical Interconnect Architectures for Embedded Systems Algorithms and Architectures for Parallel Processing Mobile Peer-to-Peer Computing for Next Generation Distributed Environments: Advancing Conceptual and Algorithmic Applications Algorithms and Architectures for Parallel Processing Business Architectures for Risk Assessment and Strategic Planning: Emerging Research and Opportunities Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing Nano-Interconnect Materials and Models for Next Generation Integrated Circuit Design Algorithms and Architectures for Parallel Processing Architectures for Adaptive Software Systems Algorithms and Architectures for Parallel Processing Heterogeneous Computing Architectures Algorithms and Architectures for Parallel Processing Sparse Arrays for Radar, Sonar, and Communications Federal Plan for Cyber Security and Information Assurance Research and Development Cognitive Engineering for Next Generation Computing Challenges for Next Generation Network Operations and Service Management Emerging Optical Network Technologies Conjugated Polymers for Next-Generation Applications, Volume 1 Research Challenges in Information Science The Computer Engineering Handbook Proceedings of the Future Technologies Conference (FTC) 2021, Volume 1 Domain-Specific Computer Architectures for Emerging Applications Evolutionary Computing and Mobile Sustainable Networks Emergent Trends in Personal, Mobile, and Handheld Computing Technologies Proceedings 3G Multimedia Network Services, Accounting, and User Profiles High Performance Embedded Architectures and Compilers Toward a Safer and More Secure Cyberspace Cognitive Wireless Networks IPv6 Security Active and Programmable Networks for Adaptive Architectures and Services Techno-Societal 2016 Algorithms and Parallel Computing Broadband Access The Future Internet

Enabling Technologies and Architectures for Next-Generation Networking Capabilities 2018-10-19

with the rise of mobile and wireless technologies more sustainable networks are necessary to support communication these next generation networks can now be utilized to extend the growing era of the internet of things enabling technologies and architectures for next generation networking capabilities is an essential reference source that explores the latest research and trends in large scale 5g technologies deployment software defined networking and other emerging network technologies featuring research on topics such as data management heterogeneous networks and spectrum sensing this book is ideally designed for computer engineers technology developers network administrators and researchers professionals and graduate level students seeking coverage on current and future network technologies

Implementing Data Analytics and Architectures for Next Generation Wireless Communications 2021-08-13

wireless communication is continuously evolving to improve and be a part of our daily communication this leads to improved quality of services and applications supported by networking technologies we are now able to use lte lte advanced and other emerging technologies due to the enormous efforts that are made to improve the quality of service in cellular networks as the future of networking is uncertain the use of deep learning and big data analytics is a point of focus as it can work in many capacities at a variety of levels for wireless communications implementing data analytics and architectures for next generation wireless communications addresses the existing and emerging theoretical and practical challenges in the design development and implementation of big data algorithms protocols architectures and applications for next generation wireless communications and their applications in smart cities the chapters of this book bring together academics and industrial practitioners to exchange discuss and implement the latest innovations and applications of data analytics in advanced networks specific topics covered include key encryption techniques smart home appliances fog communication networks and security in the internet of things this book is valuable for technologists data analysts networking experts practitioners researchers academicians and students

Wireless Systems and Network Architectures in Next Generation Internet 2006-05-18

this book constitutes the refereed post proceedings of the second international joint workshops on wireless and mobility and on new trends in network architectures and services organized by the european network of excellence on next generation internet euro ngi 2005 the 19 revised full research papers presented together with 1 invited talk are organized in topical sections on wireless solutions qos support in next generation networks and peer to peer architectures and algorithms

Neuro-inspired Computing for Next-gen AI: Computing Model, Architectures and Learning Algorithms 2022-08-29

this book describes the bottleneck faced soon by designers of traditional cmos devices due to device scaling power and energy consumption and variability limitations this book aims at bridging the gap between device technology and architecture system design readers will learn about challenges and opportunities presented by beyond cmos devices and gain insight into how these might be leveraged to build energy efficient electronic systems

Beyond-CMOS Technologies for Next Generation Computer Design 2018-08-20

this book provides a broad overview of current research in optical interconnect technologies and architectures introductory chapters on high performance computing and the associated issues in conventional interconnect architectures and on the fundamental building blocks for integrated optical interconnect provide the foundations for the bulk of the book which brings together leading experts in the field of optical interconnect architectures for data communication particular emphasis is given to the ways in which the photonic components are assembled into architectures to address the needs of data intensive on chip communication and to the performance evaluation of such architectures for specific applications

Integrated Optical Interconnect Architectures for Embedded Systems 2012-11-07

this four volume set Incs 9528 9529 9530 and 9531 constitutes the refereed proceedings of the 15th international conference on algorithms and architectures for parallel processing ica3pp 2015 held in zhangjiajie china in november 2015 the 219 revised full papers presented together with 77 workshop papers in these four volumes were carefully reviewed and selected from 807 submissions 602 full papers and 205 workshop papers the first volume comprises the following topics parallel and distributed architectures distributed and network based computing and internet of things and cyber physical social computing the second volume comprises topics such as big data and its applications and parallel and distributed algorithms the topics of the third volume are applications of parallel and distributed computing and service dependability and security in distributed and parallel systems the covered topics of the fourth volume are software systems and programming models and performance modeling and evaluation

Algorithms and Architectures for Parallel Processing 2015-11-16

this book is dedicated to the coverage of research issues findings and approaches to mobile p2p computing from both conceptual and algorithmic perspectives provided by publisher

Mobile Peer-to-Peer Computing for Next Generation Distributed Environments: Advancing Conceptual and Algorithmic Applications 2009-05-31

the two volume set Incs 11944 11945 constitutes the proceedings of the 19th international conference on algorithms and architectures for parallel processing ica3pp 2019 held in melbourne australia in december 2019 the 73 full and 29 short papers presented were carefully reviewed and selected from 251 submissions the papers are organized in topical sections on parallel and distributed architectures software systems and programming models distributed and parallel and network based computing big data and its applications distributed and parallel algorithms applications of distributed and parallel computing service dependability and security iot and cps computing performance modelling and evaluation

Algorithms and Architectures for Parallel Processing 2020-01-21

the integration of recent technological advances into modern business processes has allowed for greater efficiency and productivity however while such improvements are immensely beneficial the modeling and coordination of these activities offers a unique set of challenges that must be addressed business architectures for risk assessment and strategic planning emerging research and opportunities is a pivotal reference source for the latest research findings on the utilization of business models and value propositions in modern enterprises featuring extensive coverage on relevant areas such as management information systems business planning and value analysis this publication is an ideal resource for information system practitioners universities and colleges business managers and advanced level students seeking the latest research on achievements in this field

Business Architectures for Risk Assessment and Strategic Planning: Emerging Research and Opportunities 2017-11-17

distributed systems intertwine with our everyday lives the benefits and current shortcomings of the underpinning technologies are experienced by a wide range of people and their smart devices with the rise of large scale iot and similar distributed systems cloud bursting technologies and partial outsourcing solutions private entities are encouraged to increase their efficiency and offer unparalleled availability and reliability to their users the research anthology on architectures frameworks and integration strategies for distributed and cloud computing is a vital reference source that provides valuable insight into current and emergent research occurring within the field of distributed computing it also presents architectures and service frameworks to achieve highly integrated distributed systems and solutions to integration and efficient

management challenges faced by current and future distributed systems highlighting a range of topics such as data sharing wireless sensor networks and scalability this multi volume book is ideally designed for system administrators integrators designers developers researchers academicians and students

Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing 2021-01-25

focusses on materials and nanomaterials utilization in next generation interconnects based on carbon nanotubes cnt and graphene nanoribbons gnr helps readers realize interconnects interconnect models and crosstalk noise analysis describes hybrid cnt and gnr based interconnects presents the details of power supply voltage drop analysis in cnt and gnr interconnects overviews pertinent rf performance and stability analysis

Nano-Interconnect Materials and Models for Next Generation Integrated Circuit Design 2023-12-22

this book constitutes the proceedings of the 10th international conference on algorithms and architectures for parallel processing ica3pp the 47 papers were carefully selected from 157 submissions and focus on topics for researchers and industry practitioners to exchange information regarding advancements in the state of art and practice of it driven services and applications as well as to identify emerging research topics and define the future directions of parallel processing

Algorithms and Architectures for Parallel Processing 2010-05-07

much of a software architect's life is spent designing software systems to meet a set of quality requirements general software quality attributes include scalability security performance or reliability quality attribute requirements are part of an application's non functional requirements which capture the many facets of how the functional requirements of an application are achieved understanding modeling and continually evaluating quality attributes throughout a project lifecycle are all complex engineering tasks which continue to challenge the software engineering scientific community while we search for improved approaches methods formalisms and tools that are usable in practice and can scale to large systems the complexity of the applications that the software industry is challenged to build is ever increasing thus as a research community there is little opportunity for us to rest on our laurels as our innovations that address new aspects of system complexity must be deployed and validated to this end the 5th international conference on the quality of software architectures qosaa 2009 focused on architectures for adaptive software systems modern software systems must often reconfigure their structure and behavior to respond to continuous changes in requirements and in their execution environment in these settings quality models are helpful at an architectural level to guide systematic model driven software development strategies by evaluating the impact of competing architectural choices

Architectures for Adaptive Software Systems 2009-06-08

welcome to the proceedings of the 8th international conference on algorithms and architectures for parallel processing ica3pp 2008 ica3pp 2008 consist of two keynote addresses seven technical sessions and one tutorial included in these proceedings are papers whose authors are from australia brazil canada china cyprus france india iran israel italy japan korea germany greece mexico poland portugal romania spain switzerland taiwan tunisia uae uk and usa each paper was rigorously reviewed by at least three program committee members and/or external reviewers and the acceptance ratio is 35 these papers were presented over seven technical sessions based on the paper review results three papers were selected as the best papers we would like to thank the many people who helped make this conference a successful event we thank all authors who submitted their work to ica3pp 2008 and all program committee members and additional reviewers for their diligent work in the paper review process ensuring a collection of high quality papers we are grateful to hong shen university of adelaide australia and kleantes psarris university of texas at san antonio united states for their willingness to be the keynote speakers our thanks go to hai jin and george papadopoulos the conference general co chairs and andrzej goscinski w lei zhou and yi pan the conference steering committee co chairs for help in many aspects of organizing this conference finally we thank all the conference participants for traveling to cyprus

Algorithms and Architectures for Parallel Processing 2008-06-03

heterogeneous computing architectures challenges and vision provides an updated vision of the state of the art of heterogeneous computing systems covering all the aspects related to their design from the architecture and programming models to hardware software integration and orchestration to real time and security requirements the transitions from multicore processors gpu computing and cloud computing are not separate trends but aspects of a single trend mainstream computers from desktop to smartphones are being permanently transformed into heterogeneous supercomputer clusters the reader will get an organic perspective of modern heterogeneous systems and their future evolution

Heterogeneous Computing Architectures 2019-09-10

specialized resource providing detailed coverage of recent advances in theory and applications of sparse arrays sparse arrays for radar sonar and communications discusses various design approaches of sparse arrays including those seeking to increase the corresponding one dimensional and two dimensional virtual array apertures as well as others that configure the arrays based on solutions of constrained minimization problems the latter includes statistical bounds and signal to interference and noise ratio in this respect the book utilizes the recent strides made in convex optimizations and machine learning for sparse array configurability in both fixed and dynamic environments similar ideas are presented for sparse array waveform design the book also discusses the role of sparse arrays in improving target detection and resolution in radar improving channel capacity in massive mimo and improving underwater target localization in sonar it covers different sparse array topologies and provides various approaches that deliver the optimum and semi optimum sparse array transceivers edited by a world leading expert in radar and signal processing and contributed to by world class researchers in their respective fields sparse arrays for radar sonar and communications covers topics including utilizing sparse arrays in emerging technologies and showing their offerings in various sensing and communications applications applying sparse arrays to different environments and obtain superior performances over conventional uniform arrays solving the localization beamforming and direction finding problems using non uniform array structures for narrowband and wideband signals designing sparse array structures for both stationary and moving platforms that produce physical and synthesized array apertures using deep neural networks that learn the underlying complex nonlinear model and output the sparse array configuration using representations of the input data spatio temporal observations solving for optimum sparse array configurations and beamforming coefficients in sensing using iterative convex optimization methods providing complete coverage of the recent considerable progress in sparse array design and configurations sparse arrays for radar sonar and communications is an essential resource on the subject for graduate students and engineers pursuing research and applications in the broad areas of active passive sensing and communications

Algorithms and Architectures for Parallel Processing 2024-01-04

the cognitive approach to the iot provides connectivity to everyone and everything since iot connected devices are known to increase rapidly when the iot is integrated with cognitive technology performance is improved and smart intelligence is obtained discussed in this book are different types of datasets with structured content based on cognitive systems the iot gathers the information from the real time datasets through the internet where the iot network connects with multiple devices this book mainly concentrates on providing the best solutions to existing real time issues in the cognitive domain healthcare based cloud based and smart transportation based applications in the cognitive domain are addressed the data integrity and security aspects of the cognitive computing main are also thoroughly discussed along with validated results

Sparse Arrays for Radar, Sonar, and Communications 2006

th we are delighted to present the proceedings of the 11 asia paci c network operations and management symposium apnoms 2008 which was held in beijing china during october 22 24 2008 theorganizingcommittee oc selectedthethemeofthisyear ssymposium as challenges for next generation network operations and service mana ment research and development on next generation networks ngns have been carried out over the last few years and we are already seeing their ployment and operations in many parts of asia paci c countries we are also beginning to experience new and interesting services that utilize these ngns we are certain that we will see more deployment of ngns and ngn services in the next few years thus the operations and management of ngns and their services are very important to the network operators and service providers at the same time they are also concerned about new and more e ctive ways of performing the operations and management this year the apnoms call for papers

received 195 paper submissions from 19 different countries including countries outside the Asia Pacific region Europe Middle East North and South America each paper was carefully reviewed by at least three international experts based on review scores the APNOMS 2008 technical program committee discussed the selection of papers and selected 43 high quality papers 221 of submissions as full papers and 34 papers as short papers accepted papers were arranged into ten technical sessions and two short paper sessions poster presentation

Federal Plan for Cyber Security and Information Assurance Research and Development 2021-05-06

optical networks have moved from laboratory settings and theoretical research to real world deployment and service oriented explorations new technologies such as ethernet PON traffic grooming regional and metropolitan network architectures and optical packet switching are being explored and the landscape is continuously and rapidly evolving some of the important issues involving these new technologies involve the architectural protocol and performance related issues this book addresses many of these issues and presents a birds eye view of some of the more promising technologies researchers and those pursuing advanced degrees in this field will be able to see where progress is being made and new technologies are emerging emerging optical network technologies architectures protocols and performance provides state of the art material written by the most prominent professionals in their respective areas

Cognitive Engineering for Next Generation Computing 2008-10-16

conjugated polymers for next generation applications volume one synthesis properties and optoelectrochemical devices describes the synthesis and characterization of varied conjugated polymeric materials and their key applications including active electrode materials for electrochemical capacitors and lithium ion batteries along with new ideas of functional materials for next generation high energy batteries a discussion of common design procedures and the pros and cons of conjugated polymers for certain applications the book's emphasis lies in the underlying electronic properties of conjugated polymers their characterization and analysis and the evaluation of their effectiveness for utilization in energy and electronics applications this book is ideal for researchers and practitioners in the area of materials science chemistry and chemical engineering provides an overview of the synthesis and functionalization of conjugated polymers and their composites reviews important photovoltaics applications of conjugated polymeric materials including their use in energy storage batteries and optoelectronic devices discusses conjugated polymers and their application in electronics for sensing bioelectronics memory and more

Challenges for Next Generation Network Operations and Service Management 2006-01-16

there is arguably no field in greater need of a comprehensive handbook than computer engineering the unparalleled rate of technological advancement the explosion of computer applications and the now in progress migration to a wireless world have made it difficult for engineers to keep up with all the developments in specialties outside their own

Emerging Optical Network Technologies 2022-06-24

this book covers a wide range of important topics including but not limited to technology trends computing artificial intelligence machine vision communication security e learning and ambient intelligence and their applications to the real world the sixth future technologies conference 2021 was organized virtually and received a total of 531 submissions from academic pioneering researchers scientists industrial engineers and students from all over the world after a double blind peer review process 191 submissions have been selected to be included in these proceedings one of the meaningful and valuable dimensions of this conference is the way it brings together a large group of technology geniuses in one venue to not only present breakthrough research in future technologies but also to promote discussions and debate of relevant issues challenges opportunities and research findings we hope that readers find the book interesting exciting and inspiring it provides the state of the art intelligent methods and techniques for solving real world problems along with a vision of the future research

Conjugated Polymers for Next-Generation Applications, Volume 1 2001-12-26

with the end of moore's law domain specific architecture dsas has become a crucial mode of implementing future computing architectures this book discusses the system level design methodology of dsas and their applications providing a unified design process that guarantees functionality performance energy efficiency and real time responsiveness for the target application dsas often start from domain specific algorithms or applications analyzing the characteristics of algorithmic applications such as computation memory access and communication and proposing the heterogeneous accelerator architecture suitable for that particular application this book places particular focus on accelerator hardware platforms and distributed systems for various novel applications such as machine learning data mining neural networks and graph algorithms and also covers risc-v open source instruction sets it briefly describes the system design methodology based on dsas and presents the latest research results in academia around domain specific acceleration architectures providing cutting edge discussion of big data and artificial intelligence scenarios in contemporary industry and typical dsa applications this book appeals to industry professionals as well as academicians researching the future of computing in these areas

Research Challenges in Information Science 2021-10-23

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

The Computer Engineering Handbook 2024-06-04

this book offers a vital research within the field of personal computing highlighting the latest trends in research and development of personal technology provided by publisher

Proceedings of the Future Technologies Conference (FTC) 2021, Volume 1 2022-03-21

here's a cutting edge book that offers you a comprehensive understanding of 3g multimedia network services and related architectures this practical resource guides you in developing the services charges and customer use data that will allow maximum profitability for your company covering both mobile and fixed networks the book thoroughly explains 3g network standards implementation architectures charging principles user profiles and qos and security considerations

Domain-Specific Computer Architectures for Emerging Applications 2012-04-30

this highly relevant and up to the minute book constitutes the refereed proceedings of the third international conference on high performance embedded architectures and compilers hipeac 2008 held in göteborg sweden january 27-29 2008 the 25 revised full papers presented together with 1 invited keynote paper were carefully reviewed and selected from 77 submissions the papers are organized into topical sections on a number of key subjects in the field

Evolutionary Computing and Mobile Sustainable Networks 2005

given the growing importance of cyberspace to nearly all aspects of national life a secure cyberspace is vitally important to the nation but cyberspace is far from secure today the united states faces the real risk that adversaries will exploit vulnerabilities in the nation s critical information systems thereby causing considerable suffering and damage online e commerce business government agency files and identity records are all potential security targets toward a safer and more secure cyberspace examines these internet security vulnerabilities and offers a strategy for future research aimed at countering cyber attacks it also explores the nature of online threats and some of the reasons why past research for improving cybersecurity has had less impact than anticipated and considers the human resource base needed to advance the cybersecurity research agenda this book will be an invaluable resource for internet security professionals information technologists policy makers data stewards e commerce providers consumer protection advocates and others interested in digital security and safety

Emergent Trends in Personal, Mobile, and Handheld Computing Technologies 2003

this book advocates the idea of breaking up the cellular communication architecture by introducing cooperative strategies among wireless devices through cognitive wireless networking it details the cooperative and cognitive aspects for future wireless communication networks coverage includes social and biological inspired behavior applied to wireless networks peer to peer networking cooperative networks and spectrum sensing and management

Proceedings 2008-01-18

ipv6 security protection measures for the next internet protocol as the world s networks migrate to the ipv6 protocol networking professionals need a clearer understanding of the security risks threats and challenges this transition presents in ipv6 security two of the world s leading internet security practitioners review each potential security issue introduced by ipv6 networking and present today s best solutions ipv6 security offers guidance for avoiding security problems prior to widespread ipv6 deployment the book covers every component of today s networks identifying specific security deficiencies that occur within ipv6 environments and demonstrating how to combat them the authors describe best practices for identifying and resolving weaknesses as you maintain a dual stack network then they describe the security mechanisms you need to implement as you migrate to an ipv6 only network the authors survey the techniques hackers might use to try to breach your network such as ipv6 network reconnaissance address spoofing traffic interception denial of service and tunnel injection the authors also turn to cisco products and protection mechanisms you learn how to use cisco ios and asa firewalls and acls to selectively filter ipv6 traffic you also learn about securing hosts with cisco security agent 6.0 and about securing a network with ios routers and switches multiple examples are explained for windows linux freebsd and solaris hosts the authors offer detailed examples that are consistent with today s best practices and easy to adapt to virtually any ipv6 environment scott hogg ccie no 5133 is director of advanced technology services at global technology resources inc gtri he is responsible for setting the company s technical direction and helping it create service offerings for emerging technologies such as ipv6 he is the chair of the rocky mountain ipv6 task force eric vyncke cisco distinguished system engineer consults on security issues throughout europe he has 20 years experience in security and teaches security seminars as a guest professor at universities throughout belgium he also participates in the internet engineering task force ietf and has helped several organizations deploy ipv6 securely understand why ipv6 is already a latent threat in your ipv4 only network plan ahead to avoid ipv6 security problems before widespread deployment identify known areas of weakness in ipv6 security and the current state of attack tools and hacker skills understand each high level approach to securing ipv6 and learn when to use each protect service provider networks perimeters lans and host server connections harden ipv6 network devices against attack utilize ipsec in ipv6 environments secure mobile ipv6 networks secure transition mechanisms in use during the migration from ipv4 to ipv6 monitor ipv6 security understand the security implications of the ipv6 protocol including issues related to icmpv6 and the ipv6 header structure protect your network against large scale threats by using perimeter filtering techniques and service provider focused security practices understand the vulnerabilities that exist on ipv6 access networks and learn solutions for mitigating each this security book is part of the cisco press networking technology series security titles from cisco press help networking professionals secure critical data and resources prevent and mitigate network attacks and build end to end self defending networks category networking security covers ipv6 security

3G Multimedia Network Services, Accounting, and User Profiles 2007-10-24

most conventional networks are passive with only basic traffic monitoring management routing and congestion control at best they can be called reactive deploying new functions and integrating new standards into these architectures is difficult due to the rigid embedding of software and hardware into the network components active and programmable networks for adaptive architectures and services introduces a new generation of network technologies and architecture that allows the creation customization and management of new services and applications deployed dynamically into network nodes following a brief introduction and historical overview the author outlines the architecture of active and programmable networks discusses the enabling technologies for network programmability in detail and introduces several paradigms and prototypes he then explores packet scheduling management routing and security and examines active wireless and mobile networks the final chapter presents several real world examples of currently deployed active and programmable networks several tables present information on different schemes and architectures allowing easy comparison among a range of networking options placing the new paradigm in contrast with concepts such as tcp ip and osi active and programmable networks for adaptive architectures and services makes it easy to see how these new technologies can help you build more flexible and adaptive networks that can seamlessly integrate new functions

High Performance Embedded Architectures and Compilers 2007-09-04

this volume originates from the proceedings of a multidisciplinary conference techno societal 2016 in maharashtra india that brings together faculty members of various engineering colleges to solve indian regional relevant problems under the guidance of eminent researchers from various reputed organizations the focus is on technologies that help develop and improve society in particular on issues such as the betterment of differently abled people environment impact livelihood rural employment agriculture healthcare energy transport sanitation water education this conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region on the other hand technologies proposed by expert researchers may find applications in different regions this back and forth process for local global interaction will help in solving local problems by global approach and help in solving global problems by improving local conditions

Toward a Safer and More Secure Cyberspace 2008-12-11

there is a software gap between the hardware potential and the performance that can be attained using today's software parallel program development tools the tools need manual intervention by the programmer to parallelize the code programming a parallel computer requires closely studying the target algorithm or application more so than in the traditional sequential programming we have all learned the programmer must be aware of the communication and data dependencies of the algorithm or application this book provides the techniques to explore the possible ways to program a parallel computer for a given application

Cognitive Wireless Networks 2006-12-15

written by experts in the field this book provides an overview of all forms of broadband subscriber access networks and technology including fiber optics dsl for phone lines docsis for coax power line carrier and wireless each technology is described in depth with a discussion of key concepts historical development and industry standards the book contains comprehensive coverage of all broadband access technologies with a section each devoted to fiber based technologies non fiber wired technologies and wireless technologies the four co authors breadth of knowledge is featured in the chapters comparing the relative strengths weaknesses and prognosis for the competing technologies key features covers the physical and medium access layers osi layer 1 and 2 with emphasis on access transmission technology compares and contrasts all recent and emerging wired and wireless standards for broadband access in a single reference illustrates the technology that is currently being deployed by network providers and also the technology that has recently been or will soon be standardized for deployment in the coming years including vectoring wavelength division multiple access cdma ofdma and mimo contains detailed discussion on the following standards 10g epon g pon xg pon vdsl2 docsis 3.0 docsis protocol over epon power line carrier ieee 802.11 wlan wifi umts hspa lte and lte advanced

IPv6 Security 2017-06-16

irrespective of whether we use economic or societal metrics the internet is one of the most important technical infrastructures in existence today it will be a catalyst for much of our innovation and prosperity in the future a competitive europe will require internet connectivity and services beyond the capabilities offered by current technologies future internet research is therefore a must this book is published in full compliance with the open access publishing initiative it is based on the research carried out within the future internet assembly fia it contains a sample of representative results from the recent fia meetings spanning a broad range of topics all being of crucial importance for the future internet the book includes 32 contributions and has been structured into the following sections each of which is preceded by a short introduction foundations architectural issues socio economic issues security and trust and experiments and experimental design future internet areas networks services and content and applications

Active and Programmable Networks for Adaptive Architectures and Services 2011-04-19

Techno-Societal 2016 2014-05-12

Algorithms and Parallel Computing 2011-04-08

Broadband Access

The Future Internet

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