

High Performance Switches And Routers By Chao H Jonathan Liu Binapril 6 2007 Hardcover

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Intelligent Systems Applications in Software Engineering - Peter Silhavy 2019-09-19

This book presents real-world problems and exploratory research that describes novel approaches in software engineering, cybernetics and algorithms in the context of intelligent systems. It constitutes the refereed proceedings of the 3rd Computational Methods in Systems and Software 2019 (CoMeSySo 2019) conference, a groundbreaking online conference that provides an international forum for discussing the latest high-quality research results.

Selected Topics in Communication Networks and Distributed Systems -

IEEE Workshop on High Performance Switching and Routing 2005

VoIP Technologies - Shigeru Kashihara 2011-02-14

This book provides a collection of 15 excellent studies of Voice over IP (VoIP) technologies. While VoIP is undoubtedly a powerful and innovative communication tool for everyone, voice communication over the Internet is inherently less reliable than the public switched telephone network, because the Internet functions as a best-effort network without Quality of Service guarantee and voice data cannot be retransmitted. This book introduces research strategies that address various issues with the aim of enhancing VoIP quality. We hope that you will enjoy reading these diverse studies, and that the book will provide you with a lot of useful information about current VoIP technology research.

Interconnections for Computer Communications and Packet Networks - Roberto Rojas-Cessa 2016-11-03

This book introduces different interconnection networks applied to different systems. Interconnection networks are used to communicate processing units in a multi-processor system, routers in communication networks, and servers in data centers. Queuing techniques are applied to interconnection networks to support a higher utilization of resources. There are different queuing strategies, and these determine not only the performance of the interconnection network, but also the set of requirements to make them work effectively and their cost. Routing algorithms are used to find routes to destinations and directions in what information travels. Additional properties, such as avoiding deadlocks and congestion, are sought. Effective routing algorithms need to be paired up with these networks. The book will introduce the most relevant interconnection networks, queuing strategies, and routing algorithm. It discusses their properties and how these leverage the performance of the whole interconnection system. In addition, the book covers additional topics for memory management and congestion avoidance, used to extract higher performance from the interconnection network.

Numerical Methods and Applications - Ivan Dimov 2015-02-03

This book constitutes the thoroughly refereed post-conference proceedings of the 8th International Conference on Numerical Methods and Applications, NMA 2014, held in Borovets, Bulgaria, in August 2014. The 34 revised full papers presented were carefully reviewed and selected from 56 submissions for inclusion in this book. The papers are organized in the following topical sections: Monte Carlo and quasi-Monte Carlo methods; metaheuristics for optimization problems; advanced numerical methods for scientific computing; advanced numerical techniques for PDEs and applications; solving large engineering and scientific problems with advanced mathematical models; numerical simulations and back analysis in civil

and mechanical engineering.

The Handbook of Computer Networks, Key Concepts, Data Transmission, and Digital and Optical Networks - Hossein Bidgoli 2008

A complete and in-depth introduction to computer networks and networking In this first volume of The Handbook of Computer Networks, readers will get a complete overview of the key concepts of computers networks, data transmission, and digital and optical networks. Providing a comprehensive examination of computer networks, the book is designed for both undergraduate students and professionals working in a variety of computer network-dependent industries. With input from over 270 experts in the field, the text offers an easy-to-follow progression through each topic and focuses on fields and technologies that have widespread application in the real world.

High-Performance Backbone Network Technology - Naoaki Yamanaka 2020-04-01

Compiling the most influential papers from the IEICE Transactions in Communications, High-Performance Backbone Network Technology examines critical breakthroughs in the design and provision of effective public service networks in areas including traffic control, telephone service, real-time video transfer, voice and image transmission for a content delivery network (CDN), and Internet access. The contributors explore system structures, experimental prototypes, and field trials that herald the development of new IP networks that offer quality-of-service (QoS), as well as enhanced security, reliability, and function. Offers many hints and guidelines for future research in IP and photonic backbone network technologies

Optical SuperComputing - Shlomi Dolev 2008-08-12

This book constitutes the refereed proceedings of the The International Workshop on Optical SuperComputing, OSC 2008, held in Vienna, Austria, August 2008 in conjunction with the 7th International Conference on Unconventional Computation UC 2008. OCS is a new annual forum for research presentations on all facets of optical computing for solving hard computation tasks. Topics of interest include, but are not limited to: Design of optical computing devices, electrooptics devices for interacting with optical computing devices, practical implementations, analysis of existing devices and case studies, optical and laser switching technologies, applications and algorithms for optical devices, alpha practical, x-rays and nano-technologies for optical computing.

Optical Interconnects for Future Data Center Networks - Christoforos Kachris 2012-11-07

Optical Interconnects in Future Data Center Networks covers optical networks and how they can be used to provide high bandwidth, energy efficient interconnects for future data centers with increased communication bandwidth requirements. This contributed volume presents an integrated view of the future requirements of the data centers and serves as a reference work for some of the most advanced solutions that have been proposed by major universities and companies. Collecting the most recent and innovative optical interconnects for data center networks that have been presented in the research community by universities and industries, this book is a valuable reference to researchers, students, professors and engineers interested in the domain of high performance interconnects and data center networks. Additionally, Optical Interconnects in Future Data Center Networks provides invaluable insights into the benefits and advantages of optical interconnects and how they can be a promising alternative for future data center networks.

Mining and Control of Network Traffic by Computational Intelligence - Federico Montesino Pouzols

2011-02-10

As other complex systems in social and natural sciences as well as in engineering, the Internet is hard to understand from a technical point of view. Packet switched networks defy analytical modeling. The Internet is an outstanding and challenging case because of its fast development, unparalleled heterogeneity and the inherent lack of measurement and monitoring mechanisms in its core conception. This monograph deals with applications of computational intelligence methods, with an emphasis on fuzzy techniques, to a number of current issues in measurement, analysis and control of traffic in the Internet. First, the core building blocks of Internet Science and other related networking aspects are introduced. Then, data mining and control problems are addressed. In the first class two issues are considered: predictive modeling of traffic load as well as summarization of traffic flow measurements. The second class, control, includes active queue management schemes for Internet routers as well as window based end-to-end rate and congestion control. The practical hardware implementation of some of the fuzzy inference systems proposed here is also addressed. While some theoretical developments are described, we favor extensive evaluation of models using real-world data by simulation and experiments.

NETWORKING 2011 - Jordi Domingo-Pascual 2011-04-28

The two-volume set LNCS 6640 and 6641 constitutes the refereed proceedings of the 10th International IFIP TC 6 Networking Conference held in Valencia, Spain, in May 2011. The 64 revised full papers presented were carefully reviewed and selected from a total of 294 submissions. The papers feature innovative research in the areas of applications and services, next generation Internet, wireless and sensor networks, and network science. The first volume includes 36 papers and is organized in topical sections on anomaly detection, content management, DTN and sensor networks, energy efficiency, mobility modeling, network science, network topology configuration, next generation Internet, and path diversity.

Space Information Networks - Quan Yu 2017-04-05

This book constitutes the proceedings of the First International Conference on Space Information Network, SINC 2016, held in Kunming, China, in August 2016. The 18 full and 6 short papers presented in this volume were carefully reviewed and selected from 139 submissions. The theme of the conference encompasses new progress and development tendency of the space information network and related fields. There were 3 sections in the proceedings of SINC 2016 including the model of space information network and mechanism of high performance networking, theory and method of high speed transmission in space dynamic network, and sparse representation and fusion process in space information.

Packet Forwarding Technologies Weidong Wu 2007-12-17

As Internet traffic continues to grow exponentially, there is a great need to build Internet protocol (IP) routers with high-speed and high-capacity packet networking capabilities. The first book to explore this subject, Packet Forwarding Technologies explains in depth packet forwarding concepts and implementation technologies. It covers the

Theoretical and Mathematical Foundations of Computer Science - Qihai Zhou 2011-11-07

This book constitutes the refereed post-proceedings of the Second International Conference on Theoretical and Mathematical Foundations of Computer Science, ICTMF 2011, held in Singapore in May 2011. The conference was held together with the Second International Conference on High Performance Networking, Computing, and Communication systems, ICHCC 2011, which proceedings are published in CCIS 163. The 84 revised selected papers presented were carefully reviewed and selected for inclusion in the book. The topics covered range from computational science, engineering and technology to digital signal processing, and computational biology to game theory, and other related topics.

Switching Systems in Telecommunication Networks - dr. eng. Alexandru Rusu-Casandra 2019-05-15

Switching and routing are two types of procedures having the same fundamental purpose which is transferring information between different users of communication networks. But, while routing must be viewed at the overall level of the communication network, the information being exchanged between network nodes, switching refers to operations involving a single communication node, the information being transferred between its input / output access ports. It should also be noted that the routing is executed according to a routing protocol used on the network, while the switching is based on elements belonging to a single node in the network, namely its switching structure, routing table and path selection

algorithm between ports.

Wired/Wireless Internet Communications - Jarmo Harju 2008-05-20

This book constitutes the refereed proceedings of the 6th International Conference on Wired/Wireless Internet Communications, WWIC 2008, held in Tampere, Finland, in May 2008. The 18 revised full papers presented were carefully reviewed and selected from 67 submissions. The papers are organized in topical sessions on performance analysis of wireless systems, resource and QoS management, implementation techniques, mobility, cross-layer design, and wireless sensor networks.

Communications and Networking - Xingang Liu 2019-01-15

The book constitutes the refereed proceedings of the 13th EAI International Conference on Communications and Networking, held in October 2018 in Chengdu, China. The 71 papers presented were carefully selected from 114 submissions. The papers are organized in topical sections on wireless communications and networking, next generation WLAN, big data networks, cloud communications and networking, ad hoc and sensor networks, satellite and space communications and networking, optical communications and networking, information and coding theory, multimedia communications and smart networking, green communications and computing, signal processing for communications, network and information security, machine-to-machine and IoT, communication QoS, reliability and modeling, cognitive radio and networks, smart internet of things modeling, pattern recognition and image signal processing, digital audio and video signal processing, antenna and microwave communications, radar imaging and target recognition, and video coding and image signal processing.

Towards Digital Optical Networks - Ioannis Tomkos 2009-05-05

COST - the acronym for European COoperation in Science and Technology - is the oldest and widest European intergovernmental network for cooperation in - search. Established by the Ministerial Conference in November 1971, COST is presently used by the scientific communities of 35 European countries to cooperate in common research projects supported by national funds. The funds provided by COST - less than 1% of the total value of the projects - support the COST cooperation networks (COST Actions) through which, with € 30 million per year, more than 30,000 European scientists are involved in - search having a total value which exceeds € 2 billion per year. This is the financial worth of the European added value which COST achieves. A "bottom up approach" (the initiative of launching a COST Action comes from the European scientists themselves), "à la carte participation" (only countries interested in the Action participate), "equality of access" (participation is open also to the scientific communities of countries not belonging to the European - ion) and "flexible structure" (easy implementation and light management of the research initiatives) are the main characteristics of COST.

packetC Programming - Peder Jungck 2012-02-08

This book introduces the tools you'll need to program with the packetC language. packetC speeds the development of applications that live within computer networks, the kind of programs that provide network functionality for connecting "clients" and "servers" and "clouds." The simplest examples provide packet switching and routing while more complex examples implement cyber security, broadband policies or cloud-based network infrastructure. Network applications, such as those processing digital voice and video, must be highly scalable, secure and maintainable. Such application requirements translate to requirements for a network programming language that leverages massively-parallel systems and ensures a high level of security, while representing networking protocols and transactions in the simplest way possible. packetC meets these requirements with an intuitive approach to coarse-grained parallelism, with strong-typing and controlled memory access for security and with new data types and operators that express the classic operations of the network-oriented world in familiar programming terms. No other language has addressed the full breadth of requirements for tractable parallelism, secure processing and usable constructs. The packetC language is growing in adoption and has been used to develop solutions operating in some of the world's largest networks. This important new language, packetC, has now been successfully documented in this book, in which the language's authors provide the materials and tools you'll need in a readable and accessible form.

High Performance Computing and Communications - Jack Dongarra 2005-10-05

TRANSMISSION, SWITCHING and ROUTING in communication networks - Lucian IOAN 2021-07-14
The telecommunications network is a global system of equipment and means that ensures the connections between the users of communication services, with the transmission and reception of the information involved. It is a set of communication nodes, in which processing procedures take place for the transmission and reception of information signals, switching connections and choosing routes between nodes to make connections between sources and destinations of communications, and a set of links between these nodes, made in a variety of technologies. This volume contains 5 chapters in which the different processes and types of systems within the telecommunications network are presented.

Euro-Par 2013: Parallel Processing Workshops - Dieter an Mey 2014-04-10

This book constitutes thoroughly refereed post-conference proceedings of the workshops of the 19th International Conference on Parallel Computing, Euro-Par 2013, held in Aachen, Germany in August 2013. The 99 papers presented were carefully reviewed and selected from 145 submissions. The papers include seven workshops that have been co-located with Euro-Par in the previous years: - Big Data Cloud (Second Workshop on Big Data Management in Clouds) - Hetero Par (11th Workshop on Algorithms, Models and Tools for Parallel Computing on Heterogeneous Platforms) - HiBB (Fourth Workshop on High Performance Bioinformatics and Biomedicine) - OMHI (Second Workshop on On-chip Memory Hierarchies and Interconnects) - PROPER (Sixth Workshop on Productivity and Performance) - Resilience (Sixth Workshop on Resiliency in High Performance Computing with Clusters, Clouds, and Grids) - UCHPC (Sixth Workshop on Un Conventional High Performance Computing) as well as six newcomers: - DIHC (First Workshop on Dependability and Interoperability in Heterogeneous Clouds) - Fed ICI (First Workshop on Federative and Interoperable Cloud Infrastructures) - LSDVE (First Workshop on Large Scale Distributed Virtual Environments on Clouds and P2P) - MHPC (Workshop on Middleware for HPC and Big Data Systems) - PADABS (First Workshop on Parallel and Distributed Agent Based Simulations) - ROME (First Workshop on Runtime and Operating Systems for the Many core Era) All these workshops focus on promotion and advancement of all aspects of parallel and distributed computing.

NETWORKING 2012 - Robert Bestak 2012-05-16

The two-volume set LNCS 7289 and 7290 constitutes the refereed proceedings of the 11th International IFIP TC 6 Networking Conference held in Prague, Czech Republic, in May 2012. The 64 revised full papers presented were carefully reviewed and selected from a total of 225 submissions. The papers feature innovative research in the areas of network architecture, applications and services, next generation Internet, wireless and sensor networks, and network science. The first volume includes 32 papers and is organized in topical sections on content-centric networking, social networks, reliability and resilience, virtualization and cloud services, IP routing, network measurement, network mapping, and LISP and multi-domain routing.

High Performance Computing and Communications - Michael Gerndt 2006-09-09

This book constitutes the refereed proceedings of the Second International Conference on High Performance Computing and Communications, HPCC 2006. The book presents 95 revised full papers, addressing all current issues of parallel and distributed systems and high performance computing and communication. Coverage includes networking protocols, routing, and algorithms, languages and compilers for HPC, parallel and distributed architectures and algorithms, wireless, mobile and pervasive computing, Web services, peer-to-peer computing, and more.

Interconnect-Centric Design for Advanced SOC and NoC - M. Nurmi 2004-07-20

In Interconnect-centric Design for Advanced SoC and NoC, we have tried to create a comprehensive understanding about on-chip interconnect characteristics, design methodologies, layered views on different abstraction levels and finally about applying the interconnect-centric design in system-on-chip design. Traditionally, on-chip communication design has been done using rather ad-hoc and informal approaches that fail to meet some of the challenges posed by next-generation SOC designs, such as performance and throughput, power and energy, reliability, predictability, synchronization, and management of concurrency. To address these challenges, it is critical to take a global view of the communication problem, and decompose it along lines that make it more tractable. We believe that a layered approach similar to that defined by the communication networks community should also be used for on-chip communication design.

The design issues are handled on physical and circuit layer, logic and architecture layer, and from system design methodology and tools point of view. Formal communication modeling and refinement is used to bridge the communication layers, and network-centric modeling of multiprocessor on-chip networks and socket-based design will serve the development of platforms for SoC and NoC integration. Interconnect-centric Design for Advanced SoC and NoC is concluded by two application examples: interconnect and memory organization in SoCs for advanced set-top boxes and TV, and a case study in NoC platform design for more generic applications.

Tel ecommuni cat i on Net works- Eugenio Iannone 2017-12-19

Many argue that telecommunications network infrastructure is the most impressive and important technology ever developed. Analyzing the telecom market's constantly evolving trends, research directions, infrastructure, and vital needs, Telecommunication Networks responds with revolutionized engineering strategies to optimize network construction. Omnipresent in society, telecom networks integrate a wide range of technologies. These include quantum field theory for the study of optical amplifiers, software architectures for network control, abstract algebra required to design error correction codes, and network, thermal, and mechanical modeling for equipment platform design. Illustrating how and why network developers make technical decisions, this book takes a practical engineering approach to systematically assess the network as a whole—from transmission to switching. Emphasizing a uniform bibliography and description of standards, it explores existing technical developments and the potential for projected alternative architectural paths, based on current market indicators. The author characterizes new device and equipment advances not just as quality improvements, but as specific responses to particular technical market necessities. Analyzing design problems to identify potential links and commonalities between different parts of the system, the book addresses interdependence of these elements and their individual influence on network evolution. It also considers power consumption and real estate, which sometimes outweigh engineering performance data in determining a product's success. To clarify the potential and limitations of each presented technology and system analysis, the book includes quantitative data inspired by real products and prototypes. Whenever possible, it applies mathematical modeling to present measured data, enabling the reader to apply demonstrated concepts in real-world situations. Covering everything from high-level architectural elements to more basic component physics, its focus is to solve a problem from different perspectives, and bridge descriptions of well-consolidated solutions with newer research trends.

High Performance Switches and Routers - H. Jonathan Chao 2007-04-27

As Internet traffic grows and demands for quality of service become stringent, researchers and engineers can turn to this go-to guide for tested and proven solutions. This text presents the latest developments in high performance switches and routers, coupled with step-by-step design guidance and more than 550 figures and examples to enable readers to grasp all the theories and algorithms used for design and implementation.

Energy-Aware Systems and Networking for Sustainable Initiatives - Kaabouch, Naima 2012-06-30

"This book covers a great variety of topics such as materials, environment, electronics, and computing, offering a vital source of information detailing the latest architectures, frameworks, methodologies, and research on energy-aware systems and networking for sustainable initiatives"--

H gh- Speed Phot onics Int erconnect Lukas Chrostowski 2017-12-19

Dramatic increases in processing power have rapidly scaled on-chip aggregate bandwidths into the Tb/s range. This necessitates a corresponding increase in the amount of data communicated between chips, so as not to limit overall system performance. To meet the increasing demand for interchip communication bandwidth, researchers are investigating the use of high-speed optical interconnect architectures. Unlike their electrical counterparts, optical interconnects offer high bandwidth and negligible frequency-dependent loss, making possible per-channel data rates of more than 10 Gb/s. High-Speed Photonics Interconnects explores some of the groundbreaking technologies and applications that are based on photonics interconnects. From the Evolution of High-Speed I/O Circuits to the Latest in Photonics Interconnects Packaging and Lasers Featuring contributions by experts from academia and industry, the book brings together in one volume cutting-edge research on various aspects of high-speed photonics

interconnects. Contributors delve into a wide range of technologies, from the evolution of high-speed input/output (I/O) circuits to recent trends in photonics interconnects packaging. The book discusses the challenges associated with scaling I/O data rates and current design techniques. It also describes the major high-speed components, channel properties, and performance metrics. The book exposes readers to a myriad of applications enabled by photonics interconnects technology. Learn about Optical Interconnect Technologies Suitable for High-Density Integration with CMOS Chips This richly illustrated work details how optical interchip communication links have the potential to fully leverage increased data rates provided through complementary metal-oxide semiconductor (CMOS) technology scaling at suitable power-efficiency levels. Keeping the mathematics to a minimum, it gives engineers, researchers, graduate students, and entrepreneurs a comprehensive overview of the dynamic landscape of high-speed photonics interconnects.

Large-Scale Scientific Computations Ivan Lirkov 2014-06-26

This book constitutes the thoroughly refereed post-conference proceedings of the 9th International Conference on Large-Scale Scientific Computations, LSSC 2013, held in Sozopol, Bulgaria, in June 2013. The 74 revised full papers presented together with 5 plenary and invited papers were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on numerical modeling of fluids and structures; control and uncertain systems; Monte Carlo methods: theory, applications and distributed computing; theoretical and algorithmic advances in transport problems; applications of metaheuristics to large-scale problems; modeling and numerical simulation of processes in highly heterogeneous media; large-scale models: numerical methods, parallel computations and applications; numerical solvers on many-core systems; cloud and grid computing for resource-intensive scientific applications.

Networking Systems Design and Development Lee Chao 2009-12-21

Effectively integrating theory and hands-on practice, *Networking Systems Design and Development* provides students and IT professionals with the knowledge and skills needed to design, implement, and manage fully functioning network systems using readily available Linux networking tools. Recognizing that most students are beginners in the field of ne

Network and Parallel Computing - James J. Park 2012-12-09

This book constitutes the refereed post-proceedings of the 9th IFIP International Conference on Network and Parallel Computing, NPC 2012, held in Gwangju, Korea, in September 2012. The 38 papers presented were carefully reviewed and selected from 136 submissions. The papers are organized in the following topical sections: algorithms, scheduling, analysis, and data mining; network architecture and protocol design; network security; parallel, distributed, and virtualization techniques; performance modeling, prediction, and tuning; resource management; ubiquitous communications and networks; and web, communication, and cloud computing. In addition, a total of 37 papers selected from five satellite workshops (ATIMCN, ATSME, Cloud&Grid, DATICS, and UMAS 2012) are included.

Polyurethane Technology - Paul F. Bruins 1969

As Internet traffic grows and demands for quality of service become stringent, researchers and engineers can turn to this go-to guide for tested and proven solutions. This text presents the latest developments in high performance switches and routers, coupled with step-by-step design guidance and more than 550 figures and examples to enable readers to grasp all the theories and algorithms used for design and implementation.

Communications, Signal Processing, and Systems Qilian Liang 2017-10-27

This book brings together papers presented at the 2016 International Conference on Communications, Signal Processing, and Systems, which provides a venue to disseminate the latest developments and to

discuss the interactions and links between these multidisciplinary fields. Spanning topics ranging from communications to signal processing and systems, this book is aimed at undergraduate and graduate students in electrical engineering, computer science and mathematics, researchers and engineers from academia and industry as well as government employees (such as NSF, DOD and DOE).

Springer Handbook of Optical Networks - Biswanath Mukherjee 2020-10-15

This handbook is an authoritative, comprehensive reference on optical networks, the backbone of today's communication and information society. The book reviews the many underlying technologies that enable the global optical communications infrastructure, but also explains current research trends targeted towards continued capacity scaling and enhanced networking flexibility in support of an unabated traffic growth fueled by ever-emerging new applications. The book is divided into four parts: Optical Subsystems for Transmission and Switching, Core Networks, Datacenter and Super-Computer Networking, and Optical Access and Wireless Networks. Each chapter is written by world-renown experts that represent academia, industry, and international government and regulatory agencies. Every chapter provides a complete picture of its field, from entry-level information to a snapshot of the respective state-of-the-art technologies to emerging research trends, providing something useful for the novice who wants to get familiar with the field to the expert who wants to get a concise view of future trends.

Numerical Analysis and Its Applications Ivan Dimov 2017-04-11

This book constitutes thoroughly revised selected papers of the 6th International Conference on Numerical Analysis and Its Applications, NAA 2016, held in Lozenetz, Bulgaria, in June 2016. The 90 revised papers presented were carefully reviewed and selected from 98 submissions. The conference offers a wide range of the following topics: Numerical Modeling; Numerical Stochastics; Numerical Approximation and Computational Geometry; Numerical Linear Algebra and Numerical Solution of Transcendental Equations; Numerical Methods for Differential Equations; High Performance Scientific Computing; and also special topics such as Novel methods in computational finance based on the FP7 Marie Curie Action, Project Multi-ITN STRIKE - Novel Methods in Computational Finance, Grant Agreement Number 304617; Advanced numerical and applied studies of fractional differential equations.

Broadband Packet Switching Technology Jonathan Chao 2001-10-11

The effective design of high-speed, reliable switching systems is essential for moving the huge volumes of traffic and multimedia over modern communications networks. This book explains all the main packet-switching architectures, including all theoretical and practical topics relevant to the design and management of high-speed networks. Delivering the most systematic coverage available of the subject, the authors interweave fundamental concepts with real-world applications and include engineering case studies from wireless and fiber-optic communications. Market: Hardware and Software Engineers in the telecommunication industry, System Engineers, and Technicians.

High-performance Packet Switching Architectures Samar Elhanany 2006-09-06

Internet traffic is increasing by at least 200% per year and this is the first book to report on the current state-of-the-art of packet-switching architectures. The book covers the subject in a comprehensive survey and presents contributions from the leading researchers in industry and universities. A mix of theoretical and practical material makes this book an essential reference for researchers in academia as well as industrial engineers.

Reconfigurable Computing: Architectures, Tools and Applications Philip Brisk 2013-03-12

This book constitutes the thoroughly refereed conference proceedings of the 9th International Symposium on Reconfigurable Computing: Architectures, Tools and Applications, ARC 2013, held in Los Angeles, CA, USA, in March 2013. The 28 revised papers presented, consisting of 20 full papers and 11 poster papers were carefully selected from 41 submissions. The topics covered are applications, arithmetic, design optimization for FPGAs, architectures, place and routing.