Networking Ip Video Video On Your Ip Network Streaming Surveillance Conferencing Telepresence And Video Telephony And How Cisco Technology

Designing and Developing Scalable IP NetworksThe Power of IP VideoEnterprise Networking: Multilayer Switching and ApplicationsIntelligent Network VideoIPTV Monthly Newsletter July 2010IP in Wireless NetworksDeploying IP and MPLS QoS for Multiservice NetworksCable Networks, Services, and ManagementCisco Routers for IP Networking Black BookVideo Over IPNETWORKING 2008 Ad Hoc and Sensor Networks, Wireless Networks, Next Generation InternetFundamentals of 5G Mobile NetworksQuality of Service in Multiservice IP NetworksDesign, Measurement and Management of Large-Scale IP NetworksManagement of Multimedia Networks and ServicesNetwork WorldEnabling efficient and operational mobility in large heterogeneous IP networksOptical Networks/WDMGuide to Voice and Video over IPVoice over IP in Wireless Heterogeneous NetworksMultimedia over IP and Wireless NetworksTraffic Analysis and Design of Wireless IP NetworksTroubleshooting and Maintaining Cisco IP Networks (TSHOOT) Foundation Learning GuideDigital Video Distribution in Broadband, Television, Mobile and Converged NetworksOptimizing Voice in ATM/IP Mobile NetworksDeveloping IP Multicast NetworksQuality of Service in Multiservice IP NetworksManagement, Control and Evolution of IP NetworksVoice, Video, and Data Network ConvergencePractical TCP/IP and Ethernet Networking for IndustryHome Networks Monthly Newsletter June 2010Deploying QoS for Cisco IP and Next Generation NetworksGuide to Voice and Video over IPHandbook of Research on Secure Multimedia DistributionVideo Over IPProgrammable Networks for IP Service DeploymentVideo Surveillance Techniques and TechnologiesVideo Traces for Network Performance EvaluationMultidimensional Signal, Image, and Video Processing and CodingIP, Ethernet and MPLS Networks

Designing and Developing Scalable IP Networks

This book constitutes the refereed proceedings of the Second International Workshop on Quality of Service in Multiservice IP Networks, QoS-IP 2003, held in Milano, Italy in February 2003. The 53 revised full papers presented together with an invited paper were carefully reviewed and selected from 97 submissions. The papers are organized in topical sections on analytical models, QoS routing, measurements and experimental results, QoS below IP, end-to-end QoS in IP networks, QoS multicast, optical networks, reconfigurable protocols and networks, provision of multimedia services, QoS in multidomain networks, congestion and admission control, and architectures and protocols for QoS provision.

The Power of IP Video

This book provides a comprehensive introduction to video traces and their use in networking research. After first providing the basics of digital video and video coding, the book introduces video traces, covering the metrics captured in the traces, the trace generation, as well as the statistical characteristics of the video characterized in the traces.

Enterprise Networking: Multilayer Switching and Applications

Intelligent Network Video

Preface; Introduction to Communications; Networking Fundamentals; Ethernet Networks; Fast and Gigabit Ethernet Systems; Introduction to TCP/IP; Internet Layer Protocols; Host to Host Layer Protocols; Application Layer Protocols; TCP/IP Utilities; LAN System Components; The Internet; Internet Access; The Internet for Communications; Security Considerations; Process Automation; Installing and Troubleshooting TCP/IP; Satellites and TCP/IP.

IPTV Monthly Newsletter July 2010

This book constitutes the refereed proceedings of the 6th IFIP/IEEE International Conference on the Management of Multimedia Networks and Services, MMNS 2003, held in Belfast, Northern Ireland in September 2003. The 39 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on stream control and management, management and control of multicast communications, ad-hoc and sensor networks, QoS and mobility management in wireless networks, traffic engineering and routing, differentiated network services, on-demand networking issues and policies, multimedia QoS management, security management, and (corresponding to an associated workshop) end-to-end monitoring techniques and services.

IP in Wireless Networks

"This handbook is for both secure multimedia distribution researchers and also decision makers in obtaining a greater understanding of the concepts, issues, problems, trends, challenges and opportunities related to secure multimedia distribution"--Provided by publisher.

Deploying IP and MPLS QoS for Multiservice Networks

Fundamentals of 5G Mobile Networks provides an overview of the key features of the 5th Generation (5G) mobile networks,

discussing the motivation for 5G and the main challenges in developing this new technology. This book provides an insight into the key areas of research that will define this new system technology paving the path towards future research and development. The book is multi-disciplinary in nature, and aims to cover a whole host of intertwined subjects that will predominantly influence the 5G landscape, including Future Internet, cloud computing, small cells and self-organizing networks (SONs), cooperative communications, dynamic spectrum management and cognitive radio, Broadcast-Broadband convergence, 5G security challenge, and green RF. The book aims to be the first of its kind towards painting a holistic perspective on 5G Mobile, allowing 5G stakeholders to capture key technology trends on different layering domains and to identify potential inter-disciplinary design aspects that need to be solved in order to deliver a 5G Mobile system that operates seamlessly as a piece of the 5G networking jigsaw. Key features: • Addresses the fundamentals of 5G mobile networks serving as a useful study guide for mobile researchers and system engineers aiming to position their research in this fast evolving arena. • Develops the Small cells story together with nextï¿1⁄2]generation SON (self-organizing networks) systems as solutions for addressing the unprecedented traffic demand and variations across cells. • Elaborates Mobile Cloud technology and Services for future communication platforms, acting as a source of inspiration for corporations looking for new business models to harness the 5G wave. • Discusses the open issues facing broadï¿1⁄2]scale commercial deployment of white space networks, including the potential for applications towards the future 5G standard. • Provides a scientific assessment for broadcast and mobile broadband convergence coupled together with a ´win-win' convergence solution to harmonize the broadcasting and mobile industry. • Describes the key components, trends and challenges, as well as the system requirements for 5G transceivers to support multiï¿1⁄2]standard radio, a source of inspiration for RF engineers and vendors to tie down the requirements and potential solutions for next generation handsets.

Cable Networks, Services, and Management

Cisco Routers for IP Networking Black Book

This is the first book describing cable networks, services, and their management in greater detail by thirteen experts in various fields covering network architectures and services, operations, administration, maintenance, provisioning, troubleshooting (OAMPT) for residential services; network architectures, services, and OAMPT for business services; Software Defined Networks (SDN) and Virtualization concepts Comprehensive reference book useful for people working for a multiple systems operator Includes chapter introductions Written by 13 experts in various fields such as network services and soft defined networks

Video Over IP

The Power of IP Video Unleashing Productivity with Visual Networking Jennifer C. Baker Felicia Brych Dalke Michael Mitchell Nader Nanjiani The definitive guide to deriving business value from IP video solutions Using today's rich new IP-based technologies for video, voice, and web collaboration, businesses can streamline and accelerate processes, increase productivity, and improve both top and bottom lines. In The Power of IP Video, a team of Cisco® experts shows you exactly how to make the most of these powerful new IP video solutions. Writing for both business and technical decision makers, the authors present new best practices for optimizing virtually any program or process and for improving collaboration between virtually every employee, customer, supplier, and stakeholder. Drawing on their pioneering experience working with IP video internally and supporting the top Cisco customers, the authors show you how to make the business case for IP video and offer practical guidance for successful implementation. To demonstrate IP video at work, they also present an extensive set of case studies from large, medium-size, and small companies in many leading industries. Along the way, they demonstrate the real-world application and value of several key Cisco solutions, including Cisco Unified MeetingPlace®, Cisco Unified Video Advantage, Cisco Unified Communications Manager, Cisco TelePresence™, Cisco Digital Media Management, video surveillance, and WebEx®. Use IP video to meet the needs of knowledge workers while reducing travel and other costs Extend IP video from the office to anywhere work takes you Identify opportunities to leverage IP video in finance, marketing, sales, manufacturing, and R&D Apply IP video in financial services, healthcare, e-learning, high tech, sports and entertainment, and other industries Use IP video to "scale" the impact of your senior executives Use rich media to systematically eliminate barriers to global collaboration while saving money Estimate the business value of visual networking applications Jennifer Baker, senior manager in the Worldwide Technology Practice group at Cisco, leads marketing efforts around TelePresence, Digital Media Management, and related solutions. Felicia Brych Dalke is marketing operations manager for Collaboration Business Services. Mike Mitchell is currently director of the Collaboration Business Solutions team at Cisco, responsible for connecting business processes with visual networking tools. Nader Nanjiani is marketing manager for Unified IP Communications at Cisco, and co-author of The Business Case for E-learning (Cisco Press). This volume is in the Network Business Series offered by Cisco Press®. Books in this series provide IT executives, decision makers, and networking professionals with pertinent information about today's most important technologies and business strategies. Category: Networking: IP Communications Covers: IP Video

NETWORKING 2008 Ad Hoc and Sensor Networks, Wireless Networks, Next Generation Internet

Deploying QoS for IP Next Generation Networks: The Definitive Guide provides network architects and planners with insight into the various aspects that drive QoS deployment for the various network types. It serves as a single source of reference for businesses that plan to deploy a QoS framework for voice, video, mobility and data applications creating a converged infrastructure. It further provides detailed design and implementation details for various service deployments across the

various Cisco platforms such as the CRS-1, 12000, 7600 & 7200 series routers that are widely deployed in most Carrier Networks. The book covers architectural and implementation specific information plus recommendations for almost all the popular line cards across the various hardware platforms widely used in the market. It also addresses QoS architecture and deployment on the Cisco CRS-1 platform and is considered as a unique selling point of this book. In short the books serve as an "On the Job Manual" which can also be used as a study guide for Cisco specialist certification programs (CCNA, CCIP, CCIE) This book will includes detailed illustration and configurations. In addition, it provides detailed case studies along with platform specific tests and measurement results. A link to a detailed tutorial on QoS metrics and associated test results will be available at the book's companion website in order to ensure that the reader is able to understand QoS functionality from a deployment standpoint. Covers the requirements and solutions in deploying QoS for voice, video, IPTV, mobility and data traffic classes (Quad-play networks), saving the reader time in searching for hardware specific QoS information, given the abundance of Cisco platforms and line cards. Presents real-life deployments by means of detailed case studies, allowing the reader to apply the same solutions to situations in the work place. Provides QoS architecture and implementation details on Cisco CRS-1, 12000, 7600, and 7200 routing platforms using Cisco IOS/IOS-XR software, aiding the reader in using these devices and preparing for Cisco specialist certification.

Fundamentals of 5G Mobile Networks

Enterprise Networking: Multilayer Switching and Applications offers up to date information relevant for the design of modem corporate networks and for the evaluation of new networking equipment. The book describes the architectures, standards high-availability and network policies that are requirements of modern switched networks.

Quality of Service in Multiservice IP Networks

Video Over IP gives you everything you need to know to choose from among the many ways of transferring your video over a network. The information is presented in an easy to read format, with comparison charts provided to help you understand the benefits and drawbacks of different technologies for a variety of practical applications. This new edition is expanded to fully cover HD and wireless technologies and new case studies. Whether your background is video, networking, broadcast, or telecommunications, you will benefit from the breadth of coverage that this book provides. Real-life application examples give readers successful examples of a variety of Video over IP networks that are up and running today.

Design, Measurement and Management of Large-Scale IP Networks

HereOCOs a unique new book that focuses on the future direction in wireless/mobile telecommunications as a standalone

concept for building wireless IP systems, including commercial, campus, local, and global networks. It examines the integration of the Internet and mobile networks, which are merging as a result of global demand for seamless mobile communication."

Management of Multimedia Networks and Services

Troubleshooting and Maintaining Cisco IP Networks (TSHOOT) Foundation Learning Guide is a Cisco® authorized learning tool for CCNP preparation. As part of the Cisco Press foundation learning series, this book covers how to maintain and monitor complex enterprise networks. The chapters focus on planning tasks, evaluations of designs, performance measurements, configuring and verifying, and correct troubleshooting procedures and documentation tasks. From this book you will learn the foundational topics for critical analysis, planning, verification and documentation, while configuring tasks would have been mastered in the CCNP ROUTE and CCNP SWITCH material. The author walks you through several real-world troubleshooting examples to help you refine your study in the art of troubleshooting. Each chapter opens with the list of topics covered to clearly identify the focus of that chapter. At the end of each chapter, a summary of key concepts for quick study and review questions provide you with an opportunity to assess and reinforce your understanding of the material. Throughout the book, real-world troubleshooting examples serve to illuminate theoretical concepts. Troubleshooting and Maintaining Cisco IP Networks (TSHOOT) Foundation Learning Guide is ideal for certification candidates who are seeking a tool to learn all the topics covered in the CCNP TSHOOT 642-832 exam. Serves as the official book for the Cisco Networking Academy CCNP TSHOOT course Provides a thorough presentation on maintenance and troubleshooting techniques for routers and switches in a complex enterprise network Covers troubleshooting wireless, unified communications, and video issues in converged networks Explains how to maintain and troubleshoot network security implementations Uses extensive troubleshooting examples and diagrams to solidify the topic explanations Presents self-assessment review questions, chapter objectives, and summaries to facilitate effective studying This volume is in the Certification Self-Study Series offered by Cisco Press®. Books in this series provide officially developed training solutions to help networking professionals understand technology implementations and prepare for the Cisco Career Certifications examinations.

Network World

This book gives a concise introduction to both image and video processing, providing a balanced coverage between theory, applications and standards. It gives an introduction to both 2-D and 3-D signal processing theory, supported by an introduction to random processes and some essential results from information theory, providing the necessary foundation for a full understanding of the image and video processing concepts that follow. A significant new feature is the explanation

of practical network coding methods for image and video transmission. There is also coverage of new approaches such as: super-resolution methods, non-local processing, and directional transforms. This book also has on-line support that contains many short MATLAB programs that complement examples and exercises on multidimensional signal, image, and video processing. There are numerous short video clips showing applications in video processing and coding, plus a copy of the vidview video player for playing .yuv video files on a Windows PC and an illustration of the effect of packet loss on H.264/AVC coded bitstreams. New to this edition: New appendices on random processes, information theory New coverage of image analysis – edge detection, linking, clustering, and segmentation Expanded coverage on image sensing and perception, including color spaces. Now summarizes the new MPEG coding standards: scalable video coding (SVC) and multiview video coding (MVC), in addition to coverage of H.264/AVC. Updated video processing material including new example on scalable video coding and more material on object- and region-based video coding. More on video coding for networks including practical network coding (PNC), highlighting the significant advantages of PNC for both video downloading and streaming. New coverage of super-resolution methods for image and video. Only R&D level tutorial that gives an integrated treatment of image and video processing - topics that are interconnected. New chapters on introductory random processes, information theory, and image enhancement and analysis Coverage and discussion of the latest standards in video coding: H.264/AVC and the new scalable video standard (SVC)

Enabling efficient and operational mobility in large heterogeneous IP networks

Optical Networks/WDM

Covers the latest standards and those being developed in an ever-evolving field Provides insight into the latest technology of video and data over wireless networks and how convergence will be a driving force in this industry Provides an understanding of the true capabilities behind each vendor's solution to allow for informed buying decisions A recent survey of 500 U.S. companies with multiple locations found that 81% are planning to implement IP Telephony on their local area networks (LANs) in 2003, and two-thirds are looking at convergence for their wide area networks (WANs) as well. This includes voice, video and data over hard line and wireless networks. Today, new standards and technologies are being developed to support convergence and voice over IP (VoIP) and Video over IP and wireless. Because convergence covers the voice and data world, it will be critical to understand all of these environments. Voice, Video, and Data Network Convergence provides detailed information on convergence network models, protocol stacks, routing algorithms, gateways and switches required to support these networks. Covers the latest standards and those being developed in an ever-evolving field Provides insight into the latest technology of video and data over wireless networks and how convergence will be a driving force in this industry Provides an understanding of the true capabilities behind each vendor's solution to allow

for informed buying decisions

Guide to Voice and Video over IP

This book presents a review of the latest advances in speech and video compression, computer networking protocols, the assessment and monitoring of VoIP quality, and next generation network architectures for multimedia services. The book also concludes with three case studies, each presenting easy-to-follow step-by-step instructions together with challenging hands-on exercises. Features: provides illustrative worked examples and end-of-chapter problems; examines speech and video compression techniques, together with speech and video compression standards; describes the media transport protocols RTP and RTCP, as well as the VoIP signalling protocols SIP and SDP; discusses the concepts of VoIP quality of service and quality of experience; reviews next-generation networks based on the IP multimedia subsystem and mobile VoIP; presents case studies on building a VoIP system based on Asterisk, setting up a mobile VoIP system based on Open IMS and Android mobile, and analysing VoIP protocols and quality.

Voice over IP in Wireless Heterogeneous Networks

-- Written by the Cisco expert and author of Cisco Routers for IP Routing Little Black Book (Coriolis ISBN 1-57610-421-4). -- Explores complex topics in-depth, in the popular Black Book format, using a complete systematic approach to Cisco IP networking along with comprehensive examples and diagrams. -- Covers the most important routing concepts by introducing the subject and then going through relevant practical examples. The configurations in this book were implemented in a lab with real Cisco routers. -- Especially written as a comprehensive guide for intermediate and advanced network professionals, or network specialists studying for the CCIE certification, to help answer all major router configuring and troubleshooting issues. -- Provides an easily understandable description of the technology in each section in close conjunction with specifics of its implementation by Cisco, including configuration commands, diagnostic messages, and comprehensive examples of configuration. -- The book covers the following topics: static routing; distance vector dynamic routing protocols RIP, IGRP and EIGRP; link state routing protocol OSPF; redistribution among various sources of routing information; user data traffic and routing updates filtering; HSRP; NAT; policy-based routing; multicast IP routing (PIM-DM and PIM-SM). -- Each section of the book is designed to cover in more detail a separate "layer" of a critical networking issue, such as bridging, routing protocols, EIGRP, routing updates, etc.

Multimedia over IP and Wireless Networks

Multimedia over IP and Wireless Networks is an indispensable guide for professionals or researchers working in areas such

as networking, communications, data compression, multimedia processing, streaming architectures, and computer graphics. Beginning with a concise overview of the fundamental principles and challenges of multimedia communication and networking, this book then branches off organically to tackle compression and networking next before moving on to systems, wireless multimedia and more advanced topics. The Compression section advises on the best means and methodology to ensure multimedia signal (images, text, audio and data) integrity for transmissions on wireless and wired systems. The Networking section addresses channel protection and performance. In the Systems section, the focus is on streaming media on demand, live broadcast and video and voice's role in real-time communication. Wireless multimedia transmission and Quality of Service issues are discussed in the Wireless Multimedia section. An Advanced Topics section concludes the book with an assortment of topics including Peer-to-Peer multimedia communication and multipath networks. Up-to-date coverage of existing standards for multimedia networking Synergistic tutorial approach reinforces knowledge gained in previous chapters Balanced treatment of audio and video with coverage of end-to-end systems

Traffic Analysis and Design of Wireless IP Networks

Video Over IP gives you everything you need to know to choose from among the many ways of transferring your video over a network. The information is presented in an easy to read format, with comparison charts provided to help you understand the benefits and drawbacks of different technologies for a variety of practical applications. Readers who have a background in either video or networking will benefit from tutorials in both areas and the breadth of coverage that this book provides. Real-life application examples give readers successful examples of a variety of Video over IP networks that are up and running today. After reading this book, you will be able to: -Understand the basics of video today -Understand the basics of IP networking technology -Differentiate between technologies such as streaming, download and play, and file transfer -Understand the benefits and drawbacks of a variety of video transport techniques -Know what information you need to gather about their application before selecting a Video over IP technology and before beginning an implementation *Understand video transport over IP networks - learn how to take advantage of technologies like MPEG, multicasting, RTP, and streaming *Provides clear, easy to comprehend explanations of both video and networking technologies - perfect for newcomers - helps seasoned pros round out their knowledge *Covers a full range of video technology, from web and desktop videoconferencing to professional broadcast quality and high definition video.

Troubleshooting and Maintaining Cisco IP Networks (TSHOOT) Foundation Learning Guide

This book presents a review of the latest advances in speech and video compression, computer networking protocols, the assessment and monitoring of VoIP quality, and next generation network architectures for multimedia services. The book also concludes with three case studies, each presenting easy-to-follow step-by-step instructions together with challenging

hands-on exercises. Features: provides illustrative worked examples and end-of-chapter problems; examines speech and video compression techniques, together with speech and video compression standards; describes the media transport protocols RTP and RTCP, as well as the VoIP signalling protocols SIP and SDP; discusses the concepts of VoIP quality of service and quality of experience; reviews next-generation networks based on the IP multimedia subsystem and mobile VoIP; presents case studies on building a VoIP system based on Asterisk, setting up a mobile VoIP system based on Open IMS and Android mobile, and analysing VoIP protocols and quality.

Digital Video Distribution in Broadband, Television, Mobile and Converged Networks

The definitive guide to designing and deploying Cisco IP multicast networks Clear explanations of the concepts and underlying mechanisms of IP multicasting, from the fundamentals to advanced design techniques Concepts and techniques are reinforced through real-world network examples, each clearly illustrated in a step-by-step manner with detailed drawings Detailed coverage of PIM State Rules that govern Cisco router behavior In-depth information on IP multicast addressing, distribution trees, and multicast routing protocols Discussions of the common multimedia applications and how to deploy them Developing IP Multicast Networks, Volume I, covers an area of networking that is rapidly being deployed in many enterprise and service provider networks to support applications such as audio and videoconferencing, distance learning, and data replication. The concepts used in IP multicasting are unlike any other network protocol, making this book a critical tool for networking professionals who are implementing this technology. This book provides a solid foundation of basic IP multicast concepts, as well as the information needed to actually design and deploy IP multicast networks. Using examples of common network topologies, author Beau Williamson discusses the issues that network engineers face when trying to manage traffic flow.Developing IP Multicast Networks, Volume I, includes an in-depth discussion of the PIM protocol used in Cisco routers and detailed coverage of the rules that control the creation and maintenance of Cisco mroute state entries. The result is a comprehensive guide to the development and deployment of IP multicast networks using Cisco routers and switches.

Optimizing Voice in ATM/IP Mobile Networks

Internet Protocol (IP) networks have, for a number of years, provided the basis for modern communication channels. However, the control and management of these networks needs to be extended so that the required Quality of Service can be achieved. Information about new generations of IP networks is given, covering the future of pervasive networks (that is, networks that arealways present), Wi-Fi, the control of mobility and improved Quality of Service, sensor networks, inter-vehicle communication and optical networks.

Developing IP Multicast Networks

Sets out the design and management principles of large-scale IP networks by weaving together theory and practice.

Quality of Service in Multiservice IP Networks

"This book presents empirical research and acquired experience on the original solutions and mathematical algorithms for motion detection and object identification problems, emphasizing a wide variety of applications of security systems"--Provided by publisher.

Management, Control and Evolution of IP Networks

QoS, short for "quality of service, is one of the most important goals a network designer or administrator will have. Ensuring that the network runs at optimal precision with data remaining accurate, traveling fast, and to the correct user are the main objectives of QoS. The various media that fly across the network including voice, video, and data have different idiosyncrasies that try the dimensions of the network. This malleable network architecture poses an always moving potential problem for the network professional. The authors have provided a comprehensive treatise on this subject. They have included topics such as traffic engineering, capacity planning, and admission control. This book provides real world case studies of QoS in multiservice networks. These case studies remove the mystery behind QoS by illustrating the how, what, and why of implementing QoS within networks. Readers will be able to learn from the successes and failures of these actual working designs and configurations. Helps readers understand concepts of IP QoS by presenting clear descriptions of QoS components, architectures, and protocols Directs readers in the design and deployment of IP QoS networks through fully explained examples of actual working designs Contains real life case studies which focus on implementation

Voice, Video, and Data Network Convergence

Offering ready access to the security industry's cutting-edge digital future, Intelligent Network Video provides the first complete reference for all those involved with developing, implementing, and maintaining the latest surveillance systems. Pioneering expert Fredrik Nilsson explains how IP-based video surveillance systems provide better image quality, and a more scalable and flexible system at lower cost. A complete and practical reference for all those in the field, this volume: Describes all components relevant to modern IP video surveillance systems Provides in-depth information about image, audio, networking, and compression technologies Discusses intelligent video architectures and applications Offers a comprehensive checklist for those designing a network video system, as well as a systems design tool on DVD Nilsson

guides readers through a well-organized tour of the building blocks of modern video surveillance systems, including network cameras, video encoders, storage, servers, sensors, and video management. From there, he explains intelligent video, looking at the architectures and typical applications associated with this exciting technology. Taking a hands-on approach that meets the needs of those working in the industry, this timely volume, illustrated with more than 300 color photos, supplies readers with a deeper understanding of how surveillance technology has developed and, through application, demonstrates why its future is all about intelligent network video.

Practical TCP/IP and Ethernet Networking for Industry

Today, programmable networks are being viewed as the solution for the fast, flexible and dynamic deployment of new telecommunications network services. At the vanguard of programmable network research is the Future Active IP Networks (FAIN) project. The authors of this book discuss their research in FAIN so you can get on the inside track to tomorrow's technology. Moreover, the book provides you with detailed guidelines for designing managed IP programmable networks.

Home Networks Monthly Newsletter June 2010

A unique treatment of digital video distribution technology in a business context, Digital Video Distribution in Broadband, Television, Mobile and Converged Networks explores a range of diverse topics within the field through a combination of theory and practice to provide the best possible insight and exposure. The theoretical foundations inside assist a fuller understanding of the technologies used in practice, while real-world examples are correspondingly used to emphasize the applicability of theory in the commercial world. Fully illustrated throughout to help explain the fundamental concepts of digital media distribution, Digital Video Distribution in Broadband, Television, Mobile and Converged Networks is divided into three major parts starting initially with the basic industry trends that have been driving the adoption of video and making its distribution over the Internet an economically viable solution. This is followed with detail descriptions of challenges and solutions in distributing video in 'open' networks such as the Internet. The final part focuses on the challenges and solutions for distributing video in 'closed' networks such as the managed network of Telcos. Provides an A to Z of digital video distribution featuring technology, business, research, products and case studies. Features research topics exploring P2P Streaming, Digital Video Distribution over Disruption-Tolerant Networks and Scalable Video on Demand. Includes real world product descriptions on Transcoders, such as Rhozet, and IPTV Quality of Service Monitoring product, such as Ineoquest.

Deploying QoS for Cisco IP and Next Generation Networks

The focus of this book is on mechanisms that affect the VoIP user satisfaction while not explicitly involved in the media session. The book thus investigates and proposes cross-layer techniques for realizing time-efficient control mechanisms for VoIP.

Guide to Voice and Video over IP

Handbook of Research on Secure Multimedia Distribution

GeneralChairs' Message Welcome to the proceedings of the 7th IFIP Networking Conference, which was held in Singapore during 5–9 May 2008. This was the ?rst time that IFIP N- working Conference was held in Asia. An interesting program consisting of high-quality papers from researchers around the world was organized by the Program Chairs, Amitabha Das and Pung Hung Keng. There were a lot of opportunities for the participants to share their researchand views. This was also a great opportunity for researchers and practitioners to network and we hope the friendship will continue beyond Singapore. The success of the conference is due to the hardwork of a lot of people. Our appreciation goes to the authors, who contributed to the conference through their presence and their high-quality research papers. Oursincerethanksto theOrganizingCommittee,whoworkedveryhardh- dling the paper reviews, logistics, publication, ?nancial matters, etc. to ensure that the conference ran smoothly. Special thanks to our committee members from overseas who helped us in publicizing the conference as well as providing valuableinputandsharingtheirexperienceswithus.Wewouldalsoliketothank the numerous paper reviewers for their e?ort and time. Finally,wethankthesponsorsandthelocalinstitutions,NanyangTechnol- ical University and National University of Singapore, for lending their support to the conference.

Video Over IP

This book constitutes the refereed proceedings of the International Workshop on Quality of Service in Multiservice IP Networks, QoS-IP 2001, held in Rome, Italy, in January 2001. The 26 revised full papers presented together with two invited papers were carefully reviewed and selected from 39 submissions. The papers are organized in topical sections on connection admission control, statistical bounds, novel architectures for QoS provisioning, QoS for multicast traffic, source modeling, IP telephony, router and switch algorithms, multicast routing, differentiated services, and QoS in wireless networks.

Programmable Networks for IP Service Deployment

Designing and Developing Scalable IP Networks takes a "real world" approach to the issues that it covers. The discussions within this book are rooted in actual designs and real development, not theory or pure engineering papers. It recognises and demonstrates the importance of taking a multi-vendor approach, as existing network infrastructure is rarely homogenous and its focus is upon developing existing IP networks rather than creating them from scratch. This global book based on the author's many years' experience of designing real scalable systems, is an essential reference tool that demonstrates how to build a scalable network, what pitfalls to avoid and what mechanisms are the most successful in real life for engineers building and operating IP networks. It will be ideal for network designers and architects, network engineers and managers as well as project managers and will be of particular relevance to those studying for both JNCIE and CCIE exams.

Video Surveillance Techniques and Technologies

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

Video Traces for Network Performance Evaluation

IP in Wireless Networksis the first network professional's guide to integrating IP in 2G, 2.5G, and 3G wireless networks. It delivers systematic, expert implementation guidance for every leading wireless network, including 802.11, Bluetooth, GSM/GPRS, W-CDMA, cdma2000, and i-mode. In-depth coverage encompasses architecture, technical challenges, deployment and operation strategies, mobility models, routing, and applications. The book presents future evolution of the Wireless IP Networks with emerging applications and the role of standardization bodies.

Multidimensional Signal, Image, and Video Processing and Coding

This book summarizes the key Quality of Service technologies deployed in telecommunications networks: Ethernet, IP, and MPLS. The QoS of the network is made up of two parts: fault and resource management. Network operation quality is among the functions to be fulfilled in order to offer QoS to the end user. It is characterized by four parameters: packet loss, delay, jitter or the variation of delay over time, and availability. Resource management employs mechanisms that enable the first three parameters to be guaranteed or optimized. Fault management aims to ensure continuity of service.

IP, Ethernet and MPLS Networks

As telecom engineers struggle with implementing 3G networks, this in-depth guide to advanced methods of transmitting voice and modulated data over 3G ATM/IP backbones is especially timely. Readers will find it loaded with valuable data and real world insight based on actual implementation experience. * Shows carriers how to make their existing ATM networks 3G/UMTS-ready * Analyzes the pros and cons of each viable strategy for 3G wireless transmissions * Details implementation conclusions and recommendations

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION