

Iptv And Internet Video Expanding The Reach Of Television Broadcasting Nab Executive Technology Briefings 2nd Second Edition By Simpson Wes Greenfield Howard 2009

Get a clear picture of IP Multicast applications for delivering commercial high-quality video services This book provides a concise guide to current IP Multicast technology and its applications, with a focus on IP-based Television (IPTV) and Digital Video Broadcast-Handheld (DVB-H) applications—areas of tremendous commercial interest. Traditional phone companies can use IP Multicast technology to deliver video services over their networks; cell phone companies can use it to stream video to handheld phones and PDAs; and many cable TV companies are considering upgrading to IP technology. In addition to applications in industries seeking to provide high-quality digital video and audio, there are numerous other practical uses: multi-site corporate videoconferencing; broad distribution of financial data, stock quotes, and news bulletins; database replication; software distribution; and content caching (for example, Web site caching). After an introduction that gets readers up to speed on the basics, IP Multicast with Applications to IPTV and Mobile DVB-H: Discusses multicast addressing for payload and payload forwarding Covers routing in a variety of protocols, including PIM-SM, CBT, PIM-DM, DVMRP, and MOSPF Discusses multicasting in IPv6 environments and Multicast Listener Discovery (MLD) Features examples of IP Multicast applications in the IPTV and mobile DVB-H environments Includes reference RFCs and protocols placed in the proper context of a commercial-grade infrastructure for the delivery of robust, entertainment-quality linear and nonlinear video programming This is a concise, compact reference for practitioners who seek a quick, practical review of the topic with an emphasis on the major and most often used aspects of the technology. It serves as a hands-on resource for engineers in the communications industry or Internet design, content providers, and researchers. It's also an excellent text for college courses on IP Multicast and/or IPTV.

Inhaltsangabe:Abstract: Internet. Broadband access. Mobile telephony. Fixed telephony. TV. Google. Yahoo!. Social networks. Mobile network operators. Telecommunication operators. Media conglomerates. Citizen media. All these terms have always been traditionally considered independent, but nowadays the interrelations among all of them happen more often and are becoming deeper: a new global scenario is being defined, in which communications, entertainment and information are converging, being provided by global conglomerates in our PCs, TVs and mobile devices. Nowadays technology advances will soon enable to provide users with the best internet experience on the go . Services hosts, access providers, vendors, media owners and online players now realize that the barriers that traditionally have separated their markets dilute, bringing them all in a common-global market. Internet business models have now to converge with traditional structures and merges and acquisitions happen to reach competitive positions in foreign markets. The paradigm of internet will influence and change the most popular services as they are currently known. Fixed communication providers already suffer a loose of voice revenues in favor of the cheapest online communication. Mobile operators are facing now the same situations and find themselves on a delicate strategic situation: with VoIP nearing a competitive QoS, voice along doesn't seem to be for a long time enough as unique revenue source... Even watching TV will be soon an enriched personalized experience through the new IP end2end platforms. Will the online players be the ones successfully accomplishing a vertical expansion of their business? How will the mobile operators react? Which will be the paper of the network access providers? What about the media and content? How will all that affect the customers? In this document will be described the nowadays situation on the different markets involved in the converging scenario, and how the respective players situate themselves strategically. An initial global point of view will be followed by the definition of strategies and trends of each of them independently, and the determination of the merging points and relations among them. The effort will be focus firstly on offering recommendations and comparisons concerning specific environments. Step by step the basis of the competition environment in the converging market will be defined, offering a strategic map of the [...]

The latest edition of the acclaimed volume on television studies, featuring new original essays from leading scholars in the field Although the digital age has radically altered the media and communications landscape worldwide, television continues to play a significant part of our lives. From its earliest beginnings through to the present day, television and its influence has been the subject of extensive study, critique, and analysis. A Companion to Television brings together contributions from prominent international scholars comprising a wide range of perspectives on the medium. Original essays define television in its current state, explore why it is still relevant, survey the ways in which television has been studied, discuss how television has changed, and consider what television might look like in the future. Now in its second edition, this compendium includes fresh chapters that cover technological changes affecting television, contemporary approaches to understanding television audiences, new programming trends and developments, and more. Addressing nine key areas of television studies, such as industry, genres, programs, and audiences, the Companion offers readers a balanced, well-rounded, integrative approach to scholarship in the field. This volume: Provides overviews of extensive original research from leading scholars and theorists Examines television's development and significance in various regions of the world Includes national and regional outlines of television around the world Features theoretical overviews of various critical approaches to television studies Explores historical, economic, institutional, political, and cultural issues studied by media scholars Presenting diverse perspectives on topics ranging from television advertising to satirical representations of the industry, A Companion to Television, Second Edition is an invaluable resource for those in undergraduate courses in television studies, as well as in general media studies and communications.

This book explains the fundamentals of video, how it is digitized and compressed and the basics of video streaming. You will learn why IP digital video has replaced many analog and digital video systems. Industry standard IP video systems can be more cost effective and flexible than dedicated and/or proprietary video systems. Using IP video allows for equipment and software cost reduction, increased ability to control video services, and provides new media capabilities. The popular analog and digital video formats are described along with how video signals are captured and converted from analog to digital form (video digitization). Because the amount of digital information that is needed to represent high-quality raw digital

video requires require several Gigabits per second, digital video is compressed to allow transmission through data networks such as the Internet. You will learn that video compression is the process of reducing the amount of transmission bandwidth or data transmission rate using intra-image (spatial) or by inter-image (temporal) compression techniques. When compressed, a video signal can be transmitted on circuits with relatively narrow channel bandwidth or using data rates 50 to 200 times lower than their original uncompressed form. You will discover how video streaming systems allow for the efficient sending of packet video through data networks that may delay or loose packets. Also, you will learn how video capturing is used to receive, code and to storing video images. How video formats are converted from different formats and mediums (e.g. video to movies) is described including pullup and pulldown systems. Learn about the different types of multimedia file formats and how they sequence and group of media information elements (e.g. blocks of digital audio and digital video) within a block of data (file) or as organized on a sequence (stream) of information. Find out about different types of streaming protocols and how they are used to deliver and control the real-time delivery of media (such as audio and or video streaming). Digital video quality measurements and monitoring is explained including tiling, error blocks, smearing, jerkiness, artifacts (edge busyness) and object retention. Some of the most important topics featured are: .Analog Video Formats .Digital Video Formats .Capturing Video .Video Digitization .Video Compression .Converting Video Formats .Multimedia File Formats .Streaming Digital Video .Video Control Protocols .Digital Video Quality

The Essential Guide to New Media and Digital Marketing

Advances in Multimedia Information Processing -- PCM 2015

Communicating Science and Technology Through Online Video

Efficient Architecture for IPTV Service in Emerging Broadband Access Networks

17th International Conference, NEW2AN 2017, 10th Conference, ruSMART 2017, Third Workshop NsCC 2017, St. Petersburg, Russia, August 28-30, 2017, Proceedings

The Next Generation of Media Emerges

Vidura

This book examines unintended participatory cultures and media surrounding the American televangelists Robert Tilton and Tammy Faye Bakker-Messner. It brings to light heavily ironic fan followings; print, audio, and video projects; public access television parodies; and other comedic participatory practices associated with these controversial preachers from the 1980s onwards. For Tilton's ministry, some of these activities and artifacts would prove irksome and even threatening, particularly an analog video remix turned online viral sensation. In contrast, Bakker-Messner's "campy" fans – gay men attracted to her "ludicrous tragedy" – would provide her unexpected opportunities for career rehabilitation. Denis J. Bekkering challenges "supply-side" religious economy and branding approaches, suggestions of novelty in religion and "new" media studies, and the emphasis on sincere devotion in research on religion and fandom. He also highlights how everyday individuals have long participated in public negotiations of Christian authenticity through tongue-in-cheek play with purported religious "fakes."

This book is written to promote academic strategic management and envision future innovations for academic library resources, services and instructions in the digital age. It provides academic executives, consultants, instructors, IT specialists, librarians, LIS students, managers, trainers and other professionals with the latest information for developing trends of emerging technologies applied to student-centred and service-oriented academic learning environments. This book explores various fields where key emerging technologies may have great implications on academic library information technologies, academic library management, academic library information services, and academic library internal operations. Reflects most recent emerging technologies which might impact on library administrations, resources, services and instructions Draws a clear roadmap how and where to monitor emerging technologies which began to emerge under academic library environments Provides practical and realistic suggestions and solutions how to utilize emerging technologies in academic learning environments

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Video streaming over the Internet has become the most sought after application and is growing at a very fast rate. Internet Protocol Television (IPTV) is a technology that has been growing fast, replacing traditional cable TV. With the rapid development in the high speed networks, multimedia streaming over the internet has increased incredibly, of which video streaming is the major source of traffic in the core network. Hence IPTV video streaming over the core network has become one of the active topics for research. The major challenge associated with IPTV traffic is the fact that video traffic requires more bandwidth and is more sensitive to delay and packet loss due to congestion. Lots of research has been done to provide an Admission Control algorithm for IPTV traffic. Admission Control becomes an essential part as it is typically enforced to ensure QoS in the network. It helps prevent bottleneck in the core network. This thesis proposes an efficient method to provide admission control for IPTV traffic in the core network by using multiple GRIP probe packets to check the resource availability in the core network for the new incoming channel request. Moreover, the algorithm proves that using multiple video qualities in the network helps increase the number of channels delivered to the end user, thus satisfying more users, as opposed to single video quality. Using multiple GRIP packets made the proposed method more reliable and it was seen that on an average, the number of channels delivered to the end user was increase over 90%.

Simula Research Laboratory

Signal and Information Processing, Networking and Computers

Concepts, Methodologies, Tools, and Applications

IPTV and Internet Video

Video Over IP

by Thinking Constantly about it

OTT Technologies, Services, Operation, and Content

A rapidly growing number of services and applications along with a dramatic shift in users' consumption models have made media networks an area of increasing importance. Do you know all that you need to know? Supplying you with a clear understanding of the technical and deployment challenges, *Media Networks: Architectures, Applications, and Standard* Along with its interrelated companion volume, *The Content, Impact, and Regulation of Streaming Video*, this book covers the next generation of TV—streaming online video, with details

about its present and a broad perspective on the future. It reviews the new technical elements that are emerging, both in hardware and software, their long-term trend, and the implications. It discusses the emerging ' media cloud ' of video and infrastructure platforms, and the organizational form of such TV.

Provides options for implementing IPv6 and IPv6 multicast in service provider networks New technologies, viewing paradigms, and content distribution approaches are taking the TV/video services industry by storm. Linear and Nonlinear Video and TV Applications: Using IPv6 and IPv6 Multicast identifies five emerging trends in next-generation delivery of entertainment-quality video. These trends are observable and can be capitalized upon by progressive service providers, telcos, cable operators, and ISPs. This comprehensive guide explores these evolving directions in the TV/video services industry, including worldwide deployment of IPv6, IPTV services, web-produced video content, and the plethora of different screens available, from TV to iPad. It offers practical suggestions as to how these technologies can be implemented in service provider networks to support cost-effective delivery of entertainment, and how new revenue-generating services can be brought to market. Important topics include: Evolving video consumption habits and possible network implications An overview of IPv6 address capabilities, protocols, quality of service (QoS), and more Process descriptions of IP multicast and IPv6 multicast approaches and challenges A detailed overview of IPTV systems and technologies, including architectural requirements, QoE and QoS, security and content protection, networks, and more Internet-based TV technologies: streaming, content distribution networks, P2P networks, and cloud computing Non-traditional video content sources and their implications Linear and Nonlinear Video and TV Applications: Using IPv6 and IPv6 Multicast is indispensable reading for planners, CTOs, and engineers at broadcast TV operations, Cable TV operations, satellite operations, Internet and IS providers, telcos, and wireless providers.

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.

Internet of Things, Smart Spaces, and Next Generation Networks and Systems

Fans, Brands, and Play With Religious "Fakes"

P2P Networking and Applications

Proceedings of the 7th International Conference on Signal and Information Processing, Networking and Computers (ICSINC)

Iptv and Internet Video

An Exemplary of Strategic Chances and Risks for the Mobile Network Industry

IPTV Monthly Newsletter January 2010

This book constitutes the joint refereed proceedings of the 17th International Conference on Next Generation Wired/Wireless Advanced Networks and Systems, NEW2AN 2017, the 10th Conference on Internet of Things and Smart Spaces, ruSMART 2017. The 71 revised full papers presented were carefully reviewed and selected from 202 submissions. The papers of NEW2AN focus on advanced wireless networking and applications; lower-layer communication enablers; novel and innovative approaches to performance and efficiency analysis of ad-hoc and machine-type systems; employed game-theoretical formulations, Markov chain models, and advanced queuing theory; grapheme and other emerging material, photonics and optics; generation and processing of signals; and business aspects. The ruSMART papers deal with fully-customized applications and services. The NsCC Workshop papers capture the current state-of-the-art in the field of molecular and nanoscale communications such as information, communication and network theoretical analysis of molecular and nanonetwork, mobility in molecular and nanonetworks; novel and practical communication protocols; routing schemes and architectures; design/engineering/evaluation of molecular and nanoscale communication systems; potential applications and interconnections to the Internet (e.g. the Internet of Nano Things). The two-volume proceedings LNCS 9314 and 9315, constitute the proceedings of the 16th Pacific-Rim Conference on Multimedia, PCM 2015, held in Gwangju, South Korea, in September 2015. The total of 138 full and 32 short papers presented in these proceedings was carefully reviewed and selected from 224 submissions. The papers were organized in topical sections named: image and audio processing; multimedia content analysis; multimedia applications and services; video coding and processing; multimedia representation learning; visual understanding and recognition on big data; coding and reconstruction of multimedia data with spatial-temporal information; 3D image/video processing and applications; video/image quality assessment and processing; social media computing; human action recognition in social robotics and video surveillance; recent advances in image/video processing; new media representation and transmission technologies for emerging UHD services.

Iptv and Internet Video Expanding the Reach of Television Broadcasting Focal Press

In today ' s interconnected society, media, including news, entertainment, and social networking, has increasingly shifted to an online, ubiquitous format. Artists and audiences will

achieve the greatest successes by utilizing these new digital tools. Digital Arts and Entertainment: Concepts, Methodologies, Tools, and Applications examines the latest research and findings in electronic media, evaluating the staying power of this increasingly popular paradigm along with best practices for those engaged in the field. With chapters on topics ranging from an introduction to online entertainment to the latest advances in digital media, this impressive three-volume reference source will be important to researchers, practitioners, developers, and students of the digital arts.

Communication Technology Update and Fundamentals

American Televangelism and Participatory Cultures

The Kellogg School of Management

IP Multicast Admission Control for IPTV

Encyclopedia of Social Media and Politics

A Practical Guide to Technology and Applications

Introduction to IP Video

The Encyclopedia of Social Media and Politics explores how the rise of social media is altering politics both in the United States and in key moments, movements, and places around the world. Its scope encompasses the disruptive technologies and activities that are changing basic patterns in American politics and the amazing transformations that social media use is rendering in other political systems heretofore resistant to democratization and change. In a time when social media are revolutionizing and galvanizing politics in the United States and around the world, this encyclopedia is a must-have reference. It reflects the changing landscape of politics where old modes and methods of political communication from elites to the masses (top down) and from the masses to elites (bottom up) are being displaced rapidly by social media, and where activists are building new movements and protests using social media to alter mainstream political agendas. Key Features This three-volume A-to-Z encyclopedia set includes 600 short essays on high-interest topics that explore social media's impact on politics, such as "Activists and Activism," "Issues and Social Media," "Politics and Social Media," and "Popular Uprisings and Protest." A stellar array of world renowned scholars have written entries in a clear and accessible style that invites readers to explore and reflect on the use of social media by political candidates in this country, as well as the use of social media in protests overseas Unique to this book is a detailed appendix with material unavailable anywhere else tracking and illustrating social media usage by U.S. Senators and Congressmen. This encyclopedia set is a must-have general, non-technical resource for students and researchers who seek to understand how the changes in social networking through social media are affecting politics, both in the United States and in selected countries or regions around the world.

Make the right IPTV business decisions with a thorough understanding of the technology and the business implications of the broadband video revolution. Master key trends transforming the world of broadcast television and the Web with this guide to hardware, software, Internet applications and the wide range of alternative products and services. Explore why IP is the new gold standard for online video delivery and how it will be monetized. Understand the entire IPTV process, with clear explanations of complex technologies designed to help leaders make informed decisions and drive successful strategies. This comprehensive guide prepares you for IPTV's rapid deployment and future growth with features that include: Clear explanations of IPTV and Internet Video networks and applications Overviews of how the technical solutions are being turned into business models Reality Check perspectives in each chapter that illustrate theories with real-world case studies An expanded glossary that clarifies complex, technical jargon

This book collects selected papers from the 7th Conference on Signal and Information Processing, Networking and Computers held in Rizhao, China, on September, 2020. The 7th International Conference on Signal and Information Processing, Networking and Computers (ICSINC) was held in Rizhao, China, on September, 2020.

When researchers gather around lunch tables, at conferences, or in bars, there are some topics that are more or less compulsory. The discussions are about the ho- less management of the university or the lab where they are working, the lack of funding for important research, politicians' inability to grasp the potential of a p-ticularly promising ?eld, and the endless series of committees that seem to produce very little progress. It is common to meet excellent researchers claiming that they have almost no

time to do research because writing applications, lecturing, and - tending to committee work seem to take most of their time. Very few ever come into a position to do something about it. With Simula we have this chance. We were handed a considerable annual grant and more or less left to ourselves to do whatever we thought would produce the best possible results. We wanted to create a place where researchers could have the time and conditions necessary to re?ect over dif?cult problems, uninterrupted by mundane dif?culties; where doctoral students could be properly supervised and learn the craft of research in a well-organized and professional manner; and where entrepreneurs could ?nd professional support in developing their research-based - plications and innovations.

IPTV and Internet Video, 2nd Edition

Emerging Technologies for Academic Libraries in the Digital Age

Building the converged network for IP, VoIP and IPTV

IPTV Monthly Newsletter February 2010

ICT Innovations 2012

Digital Arts and Entertainment: Concepts, Methodologies, Tools, and Applications

Secure and Intelligent Systems

Streaming media has irreversibly revolutionised the ways in which media is transmitted and consumed. Most of us engage with streaming media on a daily basis via platforms that deliver our entertainment: Spotify, YouTube and Netflix are new brands which many of us engage with daily for our information and entertainment. It has created upheaval in the entire value chain and wiped out industries slow to adapt to it (like the video store rental chain). And it continues to evolve. Streaming media is transforming business communications in myriad ways, and it is becoming almost as crucial for project managers and marketers to understand streaming technology as it is for media professionals. The Streaming Media Guide demystifies the technology and features behind a successful streaming media service, especially in the context of how it is used by broadcasters and other media organisations. Common terms and systems being used in this space are presented and defined simply and clearly for non-technical readers. Best practice examples from Michael D'Oliveiro's experiences demonstrate how this technology can be successfully implemented. This book equips any media professional with the most basic of traditional media knowledge to enable confident conversations in the typical media organisation they work in. For technology-based graduates or dedicated broadcast professional seeking to refresh their understanding, this book provides enough information to form a solid foundation for day-to-day work. Finally, for leaders in cross-functional senior management matrices, information is provided to enable you to understand and exploit streaming media capabilities as a business. This will be the ultimate reference source, guaranteed to be bedside reading for anyone serious about using streaming media.

Stake your claim in the rapidly growing IPTV market with a thorough understanding of the key trends and technological advances shaping the future of broadband video technology. Make informed business decisions with a working knowledge of changes in technology, services, and business models. Get an up-to-date picture of the industry with new forms of television delivery, the new standard for video delivery, and current market figures. With annual growth estimates at 32+% for the next six years, this is necessary reading for remaining current in the marketplace. The second edition covers the monetization of IPTV, the differences between IPTV & Internet video, trends for the future and industry expectations. Written by two leading digital media experts, each with 25 years technology development experience and global insight.

"We are all DigiMarketers now - or we should be. The authors have for the first time provided a lucid, hype-free, business-based and practical guide to the new age of marketing: it is a kind of digital Baedeker, which should be on every businessman's book-shelf." —Miles Young, Chairman, Ogilvy & Mather Asia Pacific "The digital frontier is now the center of our universe. As Kent Wertime and Ian Fenwick show, marketers must seize this digital opportunity to accelerate their market growth." —John A. Quelch, Senior Associate Dean and Lincoln Filene Professor of Business Administration, Harvard Business School "Too many advertisers are stuck in the primordial soup when it comes to their digital marketing strategy. However, they need to evolve fast if they are to survive in a multi-channel landscape. This timely book acts like an Origin of the Species, steering hesitant brand owners through the complexities of the digital ecosystem. An impressive blend of academic theory, professional insight and practical advice." —Paul Kemp-Robertson, Co-founder & Editorial Director, Contagious www.contagiousmagazine.com "DigiMarketing: The Essential Guide to New Marketing & Digital Media is a clear call for companies to evolve their marketing practice. This book is essential reading for anyone seeking a roadmap to the future of business." —Dipak C. Jain, Dean, Kellogg School of Management "The rise of conversational media new forms of distribution - from blogs to mobile platforms - challenge traditional approaches to marketing, and require every business to have a transition plan. Kent Wertime and Ian Fenwick have written a book that is required reading for any marketers interested in successfully making that transition." —John Battelle, CEO and Founder, Federated Media Publishing and Author, The Search "Kent Wertime and Ian Fenwick have written the definitive guide to marketing in the digital age. But Digimarketing does more than educate marketing professionals. It describes the new media landscape brilliantly, making it an essential read for anyone who hopes to understand the most important technological revolution of the past fifty years. I wore out three yellow highlighters before realizing that every sentence and every paragraph is worth

committing to memory." —Norman Pearlstine, Former Editor-in-Chief, Time Inc. and Managing Editor, The Wall Street Journal, Senior Advisor, Telecommunications & Media, The Carlyle Group

As competition in telecom market is increasing, the demand for new revenue sources increases. In Internet Protocol Television (IPTV) service, television and other forms of video services are carried by Internet Protocol, or more generally by packet switching. IPTV is a promising service which can provide interactive triple play service (voice, video, and data). The telecom industry is preparing for this service and increasing its investment for emerging broadband access networks such as FTTX (Fiber-to-the-X, where X = H (home), C (curb), P (premises), B (building), etc.). Video-on-Demand (VoD), which is currently in the deployment stage, is a frontrunner in IPTV service, and it is attracting a lot of research attention. In this dissertation, we study several VoD topics, focusing on efficient bandwidth-saving streaming mechanisms between VoD servers and customers: namely batching, patching, stream merging, and broadcasting. We also consider other factors related to the VoD service: namely VoD traffic model and video popularity. Recent trends show that these streaming schemes can be combined with one another to achieve better efficiency, and they can be enhanced to support more interactive functions. We introduce the principles for VCR support in multicast schemes, and we then consider interactive VCR support mechanisms in multicast streaming schemes. Three important factors are required for efficient VoD streaming: 1) an efficient streaming scheme for bandwidth savings, 2) optimal use of deployed network bandwidth, and 3) proactive use of user storage. Considering these factors, we propose several efficient streaming algorithms. First, to attain goals 1) and 2), adaptive streaming algorithms, called Video Adaptive Streaming (VAST) and Video Greedy Adaptive Streaming (VGAST), are proposed. Second, to achieve goals 1), 2), and 3) together, we propose Video Greedy Adaptive Streaming with Proactive Buffering (VGAST-PB) algorithm which is based on VGAST but proactively stores some of the popular videos in user buffers during less busy time. In patching schemes, deciding on the proper patching window can save on the required bandwidth. We review the patching scheme and analyze the optimum patching window and the total required bandwidth. First, we propose a modified optimum patching window to increase the accuracy when multicast streams are transmitted at playback speed. Second, we calculate the optimum patching window and required bandwidth when the speed of multicast streams is multiple times of the playback speed, and we analyze the effects of multicast streaming speed in the aspect of bandwidth usage. Third, we review the VCR functions and mechanisms to support VCR functions in patching, and we obtain the minimum required bandwidth by calculating the optimum patching window considering VCR action support for both cases: implementing VCR functions in playback speed streaming and implementing VCR functions in higher-speed streaming. Batching is another bandwidth-saving streaming technique. We propose a Popularity-based OLT Batching (POB) scheme for VoD service, which uses Maximum Factored Queue Length (MFQL)-oriented strategy, but with different queue-selection algorithm by using limited number of queues at the OLT. In POB, the number of parallel queues does not increase proportionately to the number of served videos, but POB shows better performance in aspects such as the number of canceled request.

Expanding the Reach of Television Broadcasting

Architectures, Applications, and Standards

The SAGE International Encyclopedia of Mass Media and Society

Researching a New Media Phenomenon

The Technology, Business, and Economics of Streaming Video

Regulating Convergence

Triple Play

In Kellogg on Advertising and Media, members of the world's leading marketing faculty explain the revolutionized world of advertising. The star faculty of the Kellogg School of Management reveal the biggest challenges facing marketers today- including the loss of mass audiences, the decline of broadcast television advertising, and the role of online advertising- and show you how to advertise successfully in this new reality. Based on the latest research and case studies, this book shows you how to find and engage audiences in a chaotic media climate.

Online video's unique capacity to reach large audiences makes it a powerful tool to communicate science and technology to the general public. The outcome of the international research project "Videonline," this book provides a unique insight into the key elements of online science videos, such as narrative trends, production characteristics, and issues of scientific rigor. It offers various methodological approaches: a literature review, content analysis, and interviews and surveys of expert practitioners to provide information on how to maintain standards of rigour and technical quality in video production.

Traditionally, the technologies of telecommunications, broadcasting, satellite, and computing operated independently while the industries associated with each were regulated independently along the same lines. Technological convergence challenges the vertical regulatory models of broadcasting, telecommunications, and computer services while simultaneously challenging the traditional approach to regulation by nation-states. It is time for a critical examination of regulations which support convergence while addressing the realities of the current media environment. This edited volume provides a heuristic analysis of the challenges facing regulators and media institutions. Chapters explore the nature of the laws and regulations straining under the new technological realities, consider the changes already made to accommodate the new media landscape, and examine new directions

and approaches to the regulation of convergent media technologies and media institutions. Susan J. Drucker is Professor of Journalism, Media Studies, and Public Relations in the School of Communication at Hofstra University. She is the treasurer of the Urban Communication Foundation and a partner in Communication Landscapers, a consulting firm. She is an attorney, and Series Editor of the Communication Law series for Peter Lang Publishing. She is author and co-editor of over 9 books including The Urban Communication Reader I and II, Voices in the Street: Gender, Media and Public Space, and two editions of Real Law @ Virtual Space: The Regulation of Cyberspace (1999, 2005) with Gary Gumpert. Her work examines the relationship between media technology and human factors, particularly as viewed from a legal perspective. Gary Gumpert is Emeritus Professor of Communication at Queens College of the City University of New York and President of the Urban Communication Foundation. He is co-founder of Communication Landscapers, a consulting firm. His publications include Talking Tombstones and Other Tales of the Media Age and three edited volumes of Inter/Media: Interpersonal Communication in a Media Age. He is Series Editor of the Urban Communication series for Peter Lang Publishing. His primary research focuses on the nexus of communication technology and social relationships, particularly looking at urban and suburban development, the alteration of public space, and the changing nature of community.

The present stage of the human civilization is the e-society, which is build over the achievements obtained by the development of the information and communication technologies. It affects everyone, from ordinary mobile phone users to designers of high quality industrial products, and every human activity, from taking medical care to improving the state governing. The science community working in computer sciences and informatics is therefore under constant challenge; it has to solve the new appeared theoretical problem as well as to find new practical solutions. The fourth ICT Innovations Conference, held in September 2012 in Ohrid, Macedonia, was one of the several world-wide forums where academics, professionals and practitioners presented their last scientific results and development applications in the fields of high performance and parallel computing, bioinformatics, human computer interaction, security and cryptography, computer and mobile networks, neural networks, cloud computing, process verification, improving medical care, improving quality of services, web technologies, hardware implementations, cultural implication. In this book the best 37 ranked articles are presented.

IPTV Delivery Networks

IPTV Monthly Newsletter 08-10

DigiMarketing

Next Generation Architectures for Live and Video-on-Demand Services

IP Multicast with Applications to IPTV and Mobile DVB-H

Linear and Non-Linear Video and TV Applications

A guide to the current technologies related to the delivery process for both live and on-demand services within IPTV delivery networks IPTV Delivery Networks is an important resource that offers an in-depth discussion to the IPTV (Internet Protocol Television) delivery networks for both live and on demand IPTV services. This important book also includes a review of the issues and challenges surrounding the delivery of IPTV over various emerging networking and communications technologies. The authors — an international team of experts — introduce a framework for delivery network applicable for live and video-on-demand services. They review the fundamental issues of IPTV delivery networks and explore the QoS (Quality of Service) issue for IPTV delivery networks that highlights the questions of security and anomaly detection as related to quality. IPTV Delivery Networks also contains a discussion of the mobility issues and next-generation delivery networks. This guide captures the latest available and usable technologies in the field and: Explores the technologies related to delivery process for both live (real time) and on demand services in highly accessible terms Includes information on the history, current state and future of IPTV delivery Reviews all the aspects of delivery networks including storage management, resource allocation, broadcasting, video compression, QoS and QoE Contains information on current applications including Netflix (video on demand), BBC iPlayer (time-shifted IPTV) and live (real time) streaming Written for both researchers and industrial experts in the field of IPTV delivery networks. IPTV Delivery Networks is a groundbreaking book that includes the most current information available on live and on demand IPTV services.

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.

Helps to make the right IPTV business decisions with a thorough understanding of the technology and the business implications of the broadband video revolution. This title also helps to master key trends transforming the world of broadcast television and the Web.

Peer-to-Peer (P2P) networks enable users to directly share digital content (such as audio, video, and text files) as well as real-time data (such as telephony traffic) with other users without depending on a central server. Although originally popularized by unlicensed online music services such as Napster, P2P networking has recently emerged as a

viable multimillion dollar business model for the distribution of information, telecommunications, and social networking. Written at an accessible level for any reader familiar with fundamental Internet protocols, the book explains the conceptual operations and architecture underlying basic P2P systems using well-known commercial systems as models and also provides the means to improve upon these models with innovations that will better performance, security, and flexibility. Peer-to-Peer Networking and Applications is thus both a valuable starting point and an important reference to those practitioners employed by any of the 200 companies with approximately \$400 million invested in this new and lucrative technology. Uses well-known commercial P2P systems as models, thus demonstrating real-world applicability. Discusses how current research trends in wireless networking, high-def content, DRM, etc. will intersect with P2P, allowing readers to account for future developments in their designs. Provides online access to the Overlay Weaver P2P emulator, an open-source tool that supports a number of peer-to-peer applications with which readers can practice.

IPTV, Internet Video, H.264, P2P, Web TV, and Streaming: A Complete Guide to Understanding the Technology

How to Successfully Integrate Streaming Media Into Your Communications Strategy

Internet TV Systems

A Companion to Television

The Streaming Media Guide

Digitization, Compression and Transmission

Kellogg on Advertising and Media

This book describes the necessary equipment, platforms, and service options for setting up and running Internet TV systems. It covers the technologies, business, and content aspects along with operation and business parts. This 2nd edition has been updated information that covers how to use Internet TV Distribution services to setup channels on Internet TV marketplaces including Roku, Amazon Prime, Google TV, and others. Also includes new sections covering second screen, video advertising networks, and more.

The SAGE International Encyclopedia of Mass Media and Society discusses media around the world in their varied forms—newspapers, magazines, radio, television, film, books, music, websites, social media, mobile media—and describes the role of each in both mirroring and shaping society. This encyclopedia provides a thorough overview of media within social and cultural contexts, exploring the development of the mediated communication industry, mediated communication regulations, and societal interactions and effects. This reference work will look at issues such as free expression and government regulation of media; how people choose what media to watch, listen to, and read; and how the influence of those who control media organizations may be changing as new media empower previously unheard voices. The role of media in society will be explored from international, multidisciplinary perspectives via approximately 700 articles drawing on research from communication and media studies, sociology, anthropology, social psychology, politics, and business.

Stake your claim in the rapidly growing IPTV market with a thorough understanding of the key trends and technological advances shaping the future of broadband video technology. Make informed business decisions with a working knowledge of changes in technology, services, and business models. Get an up-to-date picture of the industry with new forms of television delivery, the new standard for video delivery, and current market figures. With annual growth estimates at 32+% for the next six years, this is necessary reading for remaining current in the marketplace. The second edition covers the monetization of IPTV, the differences between IPTV and Internet video, trends for the future and industry expectations. Written by two leading digital media experts, each with 25 years technology development experience and global insight.

“Triple Play” is a combination of Internet access, voice communication (telephony), and entertainment services such as IP television and video on demand. The erosion of the traditional voice service, together with the ever-increasing competition between companies, is pushing the telecommunications industry towards a major shift in its business models. Customers want more services in a more flexible way. Today, this shift can only be carried out by offering converged services built around the Internet Protocol (IP). Triple Play, a bundle of voice, video, and data services for residential customers, is the basis of this new strategy. Hens and Caballero explain how and why the telecommunications industry is facing this change, how to define, implement and offer these new services, and describes the technology behind the converged network. Triple Play analyses a number of business strategies to minimise costs, while migrating infrastructures and offering new services. Triple Play: Describes the elementary concepts of triple play service provision and gives detailed technical information to highlight key aspects. Discussed access networks, transport, signaling, service definition and business models. Covers the latest innovations in Triple Play services such as Ethernet in the First Mile (EFM), VDSL2 (Very High Speed DSL second generation), pseudowires and Multiprotocol Label Switching (MPLS). Explores video solutions (encoding, IPTV, VoD) alongside transmission and switching technologies (Ethernet, DSL, PON, NG-SDH). Includes a chapter on IP Multimedia Subsystem (IMS) and on fixed/mobile convergence. Triple Play:

Building the Converged Network for IP, VoIP and IPTV provides decision makers, engineers, telecommunications operators, network equipment manufacturers, installers and IT managers with a thorough understanding of the changes of traditional voice service and its impact upon the telecommunications industry.

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Scientific American

Media Networks

New Trends in Internet Market

Using IPv6 and IPv6 Multicast