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International Conference, ICDIPC 2011, Ostrava, Czech Republic, July 7-9, 2011, Proceedings
 Deploying Next Generation Multicast-enabled Applications
 3G Multimedia Network Services, Accounting, and User Profiles
 Reference Architecture for the Telecommunications Industry
 Digital Information Processing and Communications, Part II
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BRENDAN HALLIE

International Conference, ICDIPC 2011, Ostrava, Czech Republic, July 7-9, 2011, Proceedings DCE Research Reports

"Provides detailed information on existing Multicast and MVPN standards, referred to as Next-Generation Multicast based standards, Multicast Applications, and case studies with detailed configurations"--Provided by publisher.

Deploying Next Generation Multicast-enabled Applications John Wiley & Sons

Session Initiation Protocol (SIP) was conceived in 1996 as a signaling protocol for inviting users to multimedia conferences. With this development, the next big Internet revolution silently started. That was the revolution which would end up converting the Internet into a total communication system which would allow people to talk to each other, see each other, work collaboratively or send messages in real time. Internet telephony and, in general, Internet multimedia, is the new revolution today and SIP is the key protocol which allows this revolution to grow. The book explains, in tutorial fashion, the underlying technologies that enable real-time IP multimedia communication services in the Internet (voice, video, presence, instant messaging, online picture sharing, white-boarding, etc). Focus is on session initiation protocol (SIP) but also covers session description protocol (SDP), Real-time transport protocol (RTP), and message session relay protocol (MSRP). In addition, it will also touch on other application-related protocols and refer to the latest research work in IETF and 3GPP about these topics. (3GPP stands for "third-generation partnership project" which is a collaboration

agreement between ETSI (Europe), ARIB/TTC (Japan), CCSA (China), ATIS (North America) and TTA (South Korea).) The book includes discussion of leading edge theory (which is key to really understanding the technology) accompanied by Java examples that illustrate the theoretical concepts. Throughout the book, in addition to the code snippets, the reader is guided to build a simple but functional IP soft-phone therefore demonstrating the theory with practical examples. This book covers IP multimedia from both a theoretical and practical point of view focusing on letting the reader understand the concepts and put them into practice using Java. It includes lots of drawings, protocol diagrams, UML sequence diagrams and code snippets that allow the reader to rapidly understand the concepts. Focus on HOW multimedia communications over the Internet works to allow readers to really understand and implement the technology Explains how SIP works, including many programming examples so the reader can understand abstract concepts like SIP dialogs, SIP transactions, etc. It is not focused on just VoIP. It looks At a wide array of enhanced communication services related to SIP enabling the reader put this technology into practice. Includes nearly 100 references to the latest standards and working group activities in the IETF, bringing the reader completely up to date. Provides a step-by-step tutorial on how to build a basic, though functional, IP soft-phone allowing the reader to put concepts into practice. For advanced readers, the book also explains how to build a SIP proxy and a SIP registrar to enhance one's expertise and marketability in this fast moving area.

3G Multimedia Network Services, Accounting, and User Profiles Springer

Comprehensive coverage explaining the correlation and synergy between Next Generation Networks and the existing standardized technologies This book focuses on Next Generation Networks (NGN); in particular, on NGN architectures, protocols and services, including technologies, regulation and

business aspects. NGN provides convergence between the traditional telecommunications and the Internet, and it is globally standardized by the ITU (International Telecommunication Union), where ITU is the United Nations specialized agency for Information and Communication Technologies - ICTs. The convergence towards the NGN is based on the Internet technologies, and the introductory chapters cover the Internet fundamentals of today, including architectures, protocols (IPv4, IPv6, TCP, DNS, etc.), Internet services (WWW, e-mail, BitTorrent, Skype, and more), as well as Internet governance. Further, the prerequisite for convergence of all ICT services over single network architectures is broadband access to the Internet. Hence, the book includes architectures of fixed broadband Internet access networks, such as DSL (Digital Subscriber Line) networks, cable networks, FTTH (Fiber To The Home), next generation passive and active optical networks, and metro Ethernet. It also covers network architectures for next generation (4G) mobile and wireless networks (LTE/LTE-Advanced, and Mobile WiMAX 2.0), then Fixed Mobile Convergence - FMC, next generation mobile services, as well as business and regulatory aspects for next generation mobile networks and services. Comprehensive coverage explaining the correlation and synergy between Next Generation Networks and the existing standardized technologies Focuses on Next Generation Networks (NGN) as defined by the ITU, including performance, service architectures and mechanisms, common IMS (IP Multimedia Subsystem), control and signalling protocols used in NGN, security approaches, identity management, NGN Service Overlay Networks, and NGN business models Examines the most important NGN services, including QoS-enabled VoIP, IPTV over NGN, web services in NGN, peer-to-peer services, Ubiquitous Sensor Network (USN) services, VPN services in NGN, Internet of things and web of things Includes the transition towards NGN from the PSTN (Public Switched Telephone Networks) and from the best-effort Internet via the same Internet access Explores advanced topics such as IPv6-based NGN, network virtualization, and future packet based networks, as well as business challenges and opportunities for the NGN evolved networks and services Essential reading for engineers and employees from regulatory bodies, government organisations, telecommunication companies, ICT companies. *Reference Architecture for the Telecommunications Industry* CRC Press

Communication services are evolving at an unprecedented rate. No longer limited to interpersonal vocal communication, they now integrate functions such as address books, content sharing and messaging. The emergence of social networks - which may also include these features - is an important element of this transformation. Content services are becoming flagship services themselves, and are sometimes paired up with conversation services. The boundaries between different services are becoming less and less distinct. This book meets the need for a better understanding of communication services, and for a general framework of their description. A detailed overview on service architecture in the Telco, Web and IT worlds is presented, offering a roadmap with explanations on how to improve the architecture and governance of communication service architectures by exploiting the syntax and semantics that are common to different services is clearly outlined. This book also responds to recurring questions about service design, such as the functional scope of enablers or SOA (Service Oriented Architecture) services, the relevance of service composition to the user and collaboration between different services in a converged environment. Many concrete examples from telecoms service providers' operations illustrate these concepts. Contents 1. Describing Service Architectures. 2. Convergence of Service. 3. Building an Architectural Framework for Telecom Services. 4. Modeling and Case Study. 5. Organizational and Software Applications. About the Authors Emmanuel Bertin is senior service architect at Orange Labs in France. He is the author of more than 40 research papers, and holds more than 10 patents in the area of communication services. Noël Crespi worked at Bouygues Telecom, France Telecom R&D, and then at Nortel Networks where he led the Telephony Programme. He is currently Professor and Head of the Service Architecture Laboratory at Institut Mines-Telecom, Telecom Sud Paris in France and is the author/co-author of more than 160 research papers and 140 contributions in standardization.

Digital Information Processing and Communications, Part II Springer

Take Part in the Future of Wireless/Wireline Convergence The IP multimedia subsystem (IMS), established as the foundation for future wireless and wireline convergence, is the bedrock that will facilitate easy deployment on new, rich, personalized multimedia communication services that mix telecom and data services. Designers, planners, and researchers of communication systems will need to make full use of the technology occurring with this convergence if they want to be the ones providing end users with new and efficient services that are as cost-effective as they are innovative. To provide researchers and technicians with the tools they need to optimize their role in this communication revolution, the IP Multimedia Subsystem (IMS) Handbook presents all the technical aspects of the IMS needed to support the growth of digital traffic and the implementation of underlying networks. This guide covers everything from basic concepts to research-grade material, including the future direction of the architecture. Organized in three sections, the book brings together the technical savvy of 50 pioneering experts from around the world, providing complete coverage of relevant concepts, technologies, and services. Learn How IMS Will Speed Innovation Filling the gap between existing traditional telecommunications and Internet technologies, IMS has led to an environment in which new services and concepts are introduced more quickly than ever before, such as reusable service components and real-time integration. The technology promises to be a cost-effective evolutionary path to future wireless and wireline convergences that will meet next-generation service requirements.

Third European Conference, ECUMN 2004, Porto, Portugal, October 25-27, 2004, Proceedings IGI Global

The convergence of legacy telecommunications towards the Internet and Internet technologies is an ongoing process, resulting in converged Telecom and Internet worlds. Based on current and developing industry practice, this book focuses on the Internet technologies, in particular, on Internet principles, protocols, and services for fixed and mobile networks, including technologies, regulation, and business aspects. This timely resource provides readers with all-around coverage of standardized Internet technologies, Internet standardization regarding the Telecom sector, as well as the convergence of all services onto the Internet. This includes legacy telecommunication services, legacy Internet services, and emerging over-the-top services such as Skype, which appeared during the past decade on a global scale, driven by the penetration of fixed broadband and mobile broadband.

A Modern Approach Including Java® Practice Springer

"This book presents a comprehensive overview of emerging optical access network solutions to efficiently meet the anticipated growth in bandwidth demand"--Provided by publisher.

Services, Applications, Transport, and Operations Support Pervasive Networks and Connectivity

The two volume set LNCS 6415 and LNCS 6416 constitutes the refereed proceedings of the 4th International Symposium on Leveraging Applications of Formal Methods, ISoLA 2010, held in Heraklion, Crete, Greece, in October 2010. The 100 revised full papers presented were carefully revised and selected from numerous submissions and discuss issues related to the adoption and use of rigorous tools and methods for the specification, analysis, verification, certification, construction, test, and maintenance of systems. The 46 papers of the first volume are organized in topical sections on new challenges in the development of critical embedded systems, formal languages and methods for designing and verifying complex embedded systems, worst-case traversal time (WCCT), tools in scientific workflow composition, emerging services and technologies for a converging telecommunications / Web world in smart environments of the internet of things, Web science, model transformation and analysis for industrial scale validation, and learning techniques for software verification and validation. The second volume presents 54 papers addressing the following topics: EternalS: mission and roadmap, formal methods in model-driven development for service-oriented and cloud computing, quantitative verification in practice, CONNECT: status and plans, certification of software-driven medical devices, modeling and formalizing industrial software for verification, validation and certification, and resource and timing analysis.

Satellite and Terrestrial Hybrid Networks IGI Global

Supplying a comprehensive introduction to next-generation networks, *Building Next-Generation Converged Networks: Theory and Practice* strikes a balance between how and why things work and how to make them work. It compiles recent advancements along with basic issues from the wide range of fields related to next generation networks. Containing the contributions of 56 industry experts and researchers from 16 different countries, the book presents relevant theoretical frameworks and the latest research. It investigates new technologies such as IPv6 over Low Power Wireless Personal Area Network (6LoWPAN) architectures, standards, mobility, and security. Presenting the material in a manner that entry-level readers can easily grasp the fundamentals, the book is organized into five parts: Multimedia Streaming—deals with multimedia streaming in networks of the future—from basics to more in-depth information for the experts Safety and Security in Networks—addresses the issues related to security, including fundamental Internet and cyber-security concepts that will be relevant in any future network Network Management and Traffic Engineering—includes coverage of mathematical modeling-based works Information Infrastructure and Cloud Computing—integrates information about past achievements, present conditions, and future expectations in information infrastructure-related areas Wireless Networking—touches on the various aspects of wireless networks and technologies The text includes coverage of Internet architectures and protocols, embedded systems and sensor networks, web services, Cloud technologies, and next-generation wireless networking. Reporting on the latest advancements in the field, it provides you with the understanding required to contribute towards the materialization of future networks. This book is suitable for graduate students, researchers, academics, industry practitioners working in the area of wired or wireless networking, and basically anyone who wants to improve his or her understanding of the topics related to next-generation networks.

AMLn - A Language for Model Driven Development of Telecom Systems Springer Science & Business Media

Over the past two decades, business volume of hardware and software in the U.S has decreased by about seventy percent, while the cost of management and support has grown from \$20 billion to \$140 billion. With close to seventy percent of this growing figure being spent on the management of legacy systems and only thirty percent on new systems, improvements in the development of self-managing systems have become a cost-saving priority for many corporations and an issue of strategic importance for many economies. Investigating the latest theories, methods, and technologies, *Advances in Network Management* provides the insight of a recognized expert into the fundamental concepts and contemporary challenges in network management. From basic concepts to research-level material, it details the evolution of network management solutions in network management paradigms, protocols, and techniques. The book also addresses dependencies between network management and application-level service management. This forward-looking resource investigates advanced networks and network services including—autonomic computing, context-aware systems management, and automatic techniques aiming at self-management (self-configuration, self-healing, self-optimization, and self-protection). With its breadth and depth of coverage in theoretical, technical, and research topics, this book provides time-tested guidance for dealing with the growing complexity of network services while improving cost efficiencies in your IT department.

Pervasive Networks and Connectivity Springer Science & Business Media

On behalf of the Organizing and Program Committees of the 3rd European Conference on Universal Multiservice Networks (ECUMN 2004), it is our great pleasure to introduce the proceedings of ECUMN 2004, which was held during October 25-27, 2004, in Porto, Portugal. In response to the Call for Papers, a total of 131 papers were submitted from 29 countries. Each paper was reviewed by several members of the Technical Program Committee or by external peer reviewers. After careful assessment of the reviews, 53 papers were accepted for presentation in 13 technical sessions; half of them originated from countries outside Europe (mainly Asia). This illustrates the strong interest of this conference beyond its original geographical area. The conference program covered a variety of leading-edge research topics which are of current interest, such as wireless networks, mobile ad hoc networks, sensor networks, mobility management, optical networks, quality of service and traffic, transport protocols, real-time and multimedia, Internet technologies and applications, overlay and virtual private networks, security and privacy, and network operations and management. Together with three plenary sessions from France Telecom, Siemens, and Cisco Systems, these technical presentations - dressed the latest research results from the international industry and academia and reported on findings on present and future multiservice networks.

Mobile Peer-to-Peer Computing for Next Generation Distributed Environments: Advancing Conceptual and Algorithmic Applications IGI Global

The present information age is enabled by telecommunications and information technology and the continued convergence of their services, technologies and business models. Within telecommunications, the historic separations between fixed networks, mobile telephone networks and data communications are diminishing. Similarly, information technology and enterprise communications show convergence with telecommunications. These synergies are captured in the concept of Next Generation Networks that result from evolution to new technologies, enabling new services and applications. Network Convergence creates a framework to aid the understanding of Next Generation Networks, their potential for supporting new and enhanced applications and their relationships with legacy networks. The book identifies and explains the concepts and principles underlying standards for networks, services and applications. *Network Convergence: Gives comprehensive coverage of packet multimedia, enterprise networks, third*

generation mobile communications, OSA/Parlay and developments in fixed networks. Gives an integrated view of diverse information and communications systems and technology through a common NGN Framework. Delves into protocols, APIs and software processes for supporting services and applications in advanced networks. Discusses a variety of applications of telecommunications supporting IT and IT enhanced by communications. Follows developments in operations support systems standards and links these to next generation networks. Includes a wealth of examples, use cases, tables and illustrations that help reinforce the material for students and practitioners. Features an accompanying website with PowerPoint presentations, glossary, web references, tutorial problems, and 'learn more' pages. This essential reference guide will prove invaluable to advanced undergraduate and graduate students, academics and researchers. It will also be of interest to professionals working for telecommunications network operators, equipment vendors, telecoms regulators, and engineers who wish to further their knowledge of next generation networks.

Enterprise Resource Planning: Concepts, Methodologies, Tools, and Applications John Wiley & Sons

As computational science and engineering (CSE) become specialized and fragmented, it is easy to lose sight that many topics in CSE have common threads and because of this, advances in one sub-discipline may transmit to another. The presentation of - sults between different sub-disciplines of CSE encourages this interchange for the advancement of CSE as a whole. Of particular interest is the hybrid approach of c- bining ideas from one discipline with those of another to achieve a result that is more significant than the sum of the individual parts. Through this hybrid philosophy, a new or common principle can be discovered which has the propensity to propagate throughout this multifaceted discipline. This volume comprises the selection of extended versions of papers that were p- sented in their shortened form at the 2008 International Conference on Future Gene- tion Communication and Networking (<http://www.sersc.org/FGCN2008/>) and 2009 Advanced Science and Technology (<http://www.sersc.org/AST2009/>). We would like to acknowledge the great effort of all in the FGCN2008 and AST 2009 International Advisory Board and members of the International Program Committee, as well as all the organizations and individuals who supported the idea of publishing these advances in communication and networking, including SERSC (<http://www.sersc.org/>) and Springer. We would like to give special thanks to Rosslin John Robles, Maricel O. Balitanas, Farkhod Alisherov Alisherovich, Feruza Sattarova Yusufvna. These graduate school students of Hannam University attended to the editing process of this volume with great passion.

Towards a Global Interconnected Infrastructure IGI Global

This book constitutes the refereed proceedings of the 7th International Conference on Next Generation Teletraffic and Wired/Wireless Advanced Networking, NEW2AN 2007. The 39 revised full papers presented were carefully reviewed and selected from a total of 113 submissions. The papers are organized in topical sections on teletraffic, traffic characterization and modeling, 3G/UMTS, sensor networks, WLAN, QoS, MANETs, lower layer techniques, PAN technologies, and TCP.

The Cable and Telecommunications Professionals' Reference John Wiley & Sons

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This book constitutes the refereed proceedings of the Second Asian Internet Engineering Conference, AINTEC 2006, held in Pathumthani, Thailand, in November 2006. The 12 revised full papers presented together with 5 invited papers were carefully reviewed and selected from 36 submissions. The papers are organized in topical sections on service architecture, multicast, performance in WLAN, routing, and multihoming in mobile networks.

Systems and Strategies IGI Global

Pervasive Networks and ConnectivityDCE Research ReportsHandbook of Research on Heterogeneous Next Generation Networking: Innovations and PlatformsInnovations and PlatformsIGI Global

Technologies for Advanced Heterogeneous Networks II CRC Press

Here's a cutting-edge book that offers you a comprehensive understanding of 3G multimedia network services and related architectures. This practical resource guides you in developing the services, charges and customer use data that will allow maximum profitability for your company. Covering both mobile and fixed networks, the book thoroughly explains 3G network standards, implementation architectures, charging principles, user profiles, and QoS and security considerations.

Handbook of Research on Wireless Multimedia: Quality of Service and Solutions John Wiley & Sons

Information security is the act of protecting information from unauthorized access, use, disclosure, disruption, modification, or destruction. This book discusses why information security is needed and how security problems can have widespread impacts. It covers the complete security lifecycle of products and services, starting with requirements and policy development and progressing through development, deployment, and operations, and concluding with decommissioning. Professionals in the sciences, engineering, and communications fields will turn to this resource to understand the many legal, technical, competitive, criminal and consumer forces and influences that are rapidly changing our information dependent society. If you're a professor and would like a copy of the solutions manual, please contact ieeepress@ieee.org. The material previously found on the CD can now be found on www.booksupport.wiley.com.

Theory and Practice CRC Press

The design, development, and use of suitable enterprise resource planning systems continue play a significant role in ever-evolving business needs and environments. Enterprise Resource Planning: Concepts, Methodologies, Tools, and Applications presents research on the progress of ERP systems and their impact on changing business needs and evolving technology. This collection of research highlights a simple framework for identifying the critical factors of ERP implementation and statistical analysis to adopt its various concepts. Useful for industry leaders, practitioners, and researchers in the field.

Functional Structures in Networks Springer

Maintaining compatibility among all affected network and application interfaces of modern enterprise systems can quickly become costly and overwhelming. This handbook presents the knowledge and practical experience of a global group of experts from varying disciplines to help you plan and implement enterprise integration projects that respond to bu