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Recent Advances in Modeling and Simulation Tools for Communication Networks and Services

Springer Science & Business Media This book contains a selection of papers presented at a symposium organized under the aegis of COST Telecommunications Action 285. COST (European Cooperation in the field of Scientific and Technical Research) is a framework for scientific and technical cooperation, allowing the coordination of national research on a European level. Action 285 sought to enhance existing tools and develop new modeling and simulation tools.

Recent Advances in Modeling and

Simulation Tools for Communication Networks and Services

Springer Science & Business Media This book contains a selection of papers presented at a Symposium organized under the aegis of COST Telecommunications Action 285. The main objective of the Action is to enhance existing modeling and simulation tools and to develop new tools for research in emerging multi-service telecommunication networks in the areas of model performance improvement, multilayer traffic modeling, and the important issue of evaluation and validation of the new modeling tools. The studies related to the activities above are carried out by members of the Action Group with contributions from invited experts/scientists from non-COST countries, academia and industry (within and outside Europe). The book is a collection of important aspects of study results achieved by this distinguished group of experts/scientists from Europe and the US. The book is divided into the following six areas: - Multilayer Modeling - Wireless and Sensor Networks - Verification and Validation - High Throughput Systems - Traffic - Applications of Simulation A useful reference work for academic researchers and practitioners, this book is the third in a series of works focusing on modeling and simulation methods, techniques, and tools in telecommunications. Previous works in this series are: Modeling and Simulation Tools for Emerging Telecommunications Networks: Needs, Trends, Challenges and Solutions, by A. Nejat Ince and Ercan Topuz (editors), Springer, 2006, 510 pages, ISBN: 978-0-387-32921-5 Modeling and Simulation Environment for Satellite and Terrestrial Communications Networks, by A. Nejat Ince (Editor), Springer, 2004, 424 pages, ISBN: 978-0-7923-7547-0

Simulation Technologies in Networking and Communications

Selecting the Best Tool for the Test

CRC Press Simulation is a widely used mechanism for validating the theoretical models of networking and communication systems. Although the claims made based on simulations are considered to be reliable, how reliable they really are is best determined with real-world implementation trials. Simulation Technologies in Networking and Communications: Selecting the Best Tool for the Test addresses the spectrum of issues regarding the different mechanisms related to simulation technologies in networking and communications fields. Focusing on the practice of simulation testing instead of the theory, it presents the work of more than 50 experts from around the world. Considers superefficient Monte Carlo simulations Describes how to simulate and evaluate multicast routing algorithms Covers simulation tools for cloud computing and broadband passive optical networks Reports on recent developments in simulation tools for WSNs Examines modeling

and simulation of vehicular networks The book compiles expert perspectives about the simulation of various networking and communications technologies. These experts review and evaluate popular simulation modeling tools and recommend the best tools for your specific tests. They also explain how to determine when theoretical modeling would be preferred over simulation. This book does not provide a verdict on the best suitable tool for simulation. Instead, it supplies authoritative analyses of the different kinds of networks and systems. Presenting best practices and insights from global experts, the book provides you with an understanding of what to simulate, where to simulate, whether to simulate or not, when to simulate, and how to simulate for a wide range of issues.

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Modeling and Simulation Environment for Satellite and Terrestrial Communications Networks

Proceedings of the European COST Telecommunications Symposium

Springer Science & Business Media Modeling and Simulation Environment for Satellite and Terrestrial Communications Networks: Proceedings of the European COST Telecommunications Symposium will be of interest to network designers, developers, and operators. This book is a collection of papers given at the European Cost Telecommunications Symposium. The Symposium was broken down into four sessions: Modelling and Simulation. Teletraffic Modelling. Communications Networks Simulation. Problems in Simulation. Each session addressed a wide spectrum of

subjects. The symposium covered nearly all of the important aspects of simulation modeling and tools for the design and performance evaluation of communication techniques and systems. Emerging techniques were emphasized. Modeling and Simulation Environment for Satellite and Terrestrial Communications Networks: Proceedings of the European COST Telecommunications Symposium is a useful reference work for practicing engineers and academic researchers.

Simulation Tools and Techniques

11th International Conference, SIMUtools 2019, Chengdu, China, July 8–10, 2019, Proceedings

Springer Nature This volume constitutes the refereed post-conference proceedings of the 11th International Conference on Simulation Tools and Techniques, SIMUTools 2019, held in Chengdu, China, in August 2019. The 97 revised full papers were carefully selected from 156 submissions. The papers focus on simulation methods, simulation techniques, simulation software, simulation performance, modeling formalisms, simulation verification and widely used frameworks.

Modeling and Simulation of Complex Communication Networks

Institution of Engineering and Technology Modern network systems such as Internet of Things, Smart Grid, VoIP traffic, Peer-to-Peer protocol, and social networks, are inherently complex. They require powerful and realistic models and tools not only for analysis and simulation but also for prediction. This book covers important topics and approaches related to the modeling and simulation of complex communication networks from a complex adaptive systems perspective. The book presents different modeling paradigms and approaches as well as surveys and case studies. With contributions from an international panel of experts, this book is essential reading for networking, computing, and communications professionals, researchers and engineers in the field of next generation networks and complex information and communication systems, and academics and advanced students working in these fields.

Towards a Service-Based Internet

4th European Conference, ServiceWave 2011, Poznan, Poland, October 26-28, 2011, Proceedings

Springer Science & Business Media This volume constitutes the refereed proceedings of the Fourth European Conference, ServiceWave 2011, held in Poznan, Poland, in October 2011. The 25 revised full papers presented together with 3 invited presentations were carefully reviewed and selected from numerous submissions. They are organized in topical sections on cloud computing, security, privacy and trust, service engineering fundamentals, business services, and FI-PPP. In addition to the scientific track, 14 extended abstracts of demonstrations covering a wide spectrum of technology and application domains were accepted.

NBS Special Publication

Intelligence in Services and Networks. Paving the Way for an Open Service Market

6th International Conference on Intelligence and Services in Networks, IS&N'99, Barcelona, Spain, April 27-29, 1999, Proceedings

Springer Paving the Way for an Open Service Market We live in an age when powerful communications technology is becoming available to everyone. From our home we can send and receive not only analogue voice, but also growing volumes of digital information and even intelligence in the form of agents. We are becoming increasingly mobile and are expecting the same level of connectivity in the home, in the office, and on the road. The regulatory and commercial environment in which we communicate is changing. The telecommunications market is becoming increasingly competitive. The Internet is erasing the borders between information technology and

telecommunications. And the way we do business is ever more dominated by electronic exchanges of information. Is our technology ready for the open market of networks and services? Can we manage the growing complexity of computing and telecommunications technology and place it at the service of the people? The challenge for the research community is to develop the tools and techniques that will ultimately bring the full power of communications and information to everyone, in a way that everyone can easily use. The Sixth International Conference on Intelligence in Services and Networks (IS&N'99) is all about technology for paving the way to the open services market. Since the first IS&N conference in 1992 the focus of the IS&N program has continually shifted. We see existing technologies maturing while new ones emerge, but the bottom line has always been putting technology at the service of the people.

Network World

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.

Modeling Telecom Networks and Systems Architecture

Conceptual Tools and Formal Methods

Springer Science & Business Media The book outlines Sysnet Modelling, a method for modelling systems architecture. The method is particularly well suited for telecom networks and systems, although a large part of it may be used in a wider context.

Services in Wireless Sensor Networks

Modelling and Optimisation for the

Efficient Discovery of Services

Springer Science & Business Media In recent years, originally static and single purpose Wireless Sensor Networks have moved towards applications that need support for mobility and multiple purposes. These heterogeneous applications and services demand for a framework which distributes and discovers the various services, so that other pieces of equipment can use them. Markus Becker studies, extends, analytically models, simulates and employs the so called Trickle algorithm in measurements in a Wireless Sensor Network test bed for the service distribution. The obtained results apply to the application of the Trickle algorithm at lower protocol layers, e.g. for routing, as well. Given application delay requirements, the author derives the realizable distances and number of nodes for two network topologies from the 95 percentiles obtained by simulation.

Network Simulation

Morgan & Claypool Publishers Network Simulation presents a detailed introduction to the design, implementation, and use of network simulation tools. Discussion topics include the requirements and issues faced for simulator design and use in wired networks, wireless networks, distributed simulation environments, and fluid model abstractions. Several existing simulations are given as examples, with details regarding design decisions and why those decisions were made. Issues regarding performance and scalability are discussed in detail, describing how one can utilize distributed simulation methods to increase the scale and performance of a simulation environment. Finally, a case study of two simulation tools is presented that have been developed using distributed simulation methodology. This text is essential to any student, researcher, or network architect in need of a detailed understanding of how network simulation tools are designed, implemented, and used.

Computerworld

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Robotics, Automation, and Control in Industrial and Service Settings

IGI Global

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Signal and Information Processing, Networking and Computers

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

Springer Nature 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.

Modeling and Simulation of Computer Networks and Systems Methodologies and Applications

Morgan Kaufmann Modeling and Simulation of Computer Networks and Systems: Methodologies and Applications introduces you to a broad array of modeling and simulation issues related to computer networks and systems. It focuses on the theories, tools, applications and uses of modeling and simulation in order to effectively optimize networks. It describes methodologies for modeling and simulation of new generations of wireless and mobiles networks and cloud and grid computing systems. Drawing upon years of practical experience and using numerous examples and illustrative applications recognized experts in both academia and industry, discuss: Important and emerging topics in computer networks and systems including but not limited to; modeling, simulation, analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks Methodologies, strategies and tools, and strategies needed to build computer networks and systems modeling and simulation from the bottom up Different network performance metrics including, mobility, congestion, quality of service, security and more... Modeling and Simulation of Computer Networks and Systems is

a must have resource for network architects, engineers and researchers who want to gain insight into optimizing network performance through the use of modeling and simulation. Discusses important and emerging topics in computer networks and Systems including but not limited to; modeling, simulation, analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks Provides the necessary methodologies, strategies and tools needed to build computer networks and systems modeling and simulation from the bottom up Includes comprehensive review and evaluation of simulation tools and methodologies and different network performance metrics including mobility, congestion, quality of service, security and more

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Transactions of the Society for Computer Simulation

Simulation-based Lean Six-Sigma and Design for Six-Sigma

John Wiley & Sons This is the first book to completely cover the whole body of knowledge of Six Sigma and Design for Six Sigma with Simulation Methods as outlined by the American Society for Quality. Both simulation and contemporary Six Sigma methods are explained in detail with practical examples that help understanding of the key features of the design methods. The systems approach to designing products and services as well as problem solving is integrated into the methods discussed.

Recent Advances in Network Simulation

The OMNeT++ Environment and its Ecosystem

Springer This book provides a comprehensive introduction to the OMNeT++ simulation environment and an overview of its ecosystem of ever-growing frameworks, which provide simulation models for diverse communication systems, protocols, and standards. The book covers the most recent advances of the three key points in the OMNeT++ environment: (1) The latest features that are being added to OMNeT++ itself, including improvements in the visualization options, in data processing, etc. (2) A comprehensive description of the current state of development and the work in progress of the main simulation frameworks, covering several aspects of communication such as vehicular, cellular, and sensor networks. (3) The latest advances and novel developments coming from a large research community. The presentation is guided through use cases and examples, always keeping in mind the practical and research purposes of the simulation process. Includes an introduction to the OMNeT++ simulation framework and its main features; Gives a comprehensive overview of ongoing research topics that exploits OMNeT++ as the simulation environment; Provides examples and uses cases focusing on the practical aspects of simulation.

Testbeds and Research

Infrastructure: Development of Networks and Communities

9th International ICST Conference, TridentCom 2014, Guangzhou, China, May 5-7, 2014, Revised Selected Papers

Springer This book constitutes the proceedings of the 9th International Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities, TridentCom 2014, held in Guangzhou, China, in May 2014. The 49 revised full papers presented were carefully selected out of 149 submissions. The conference consisted of 6 symposia covering topics such as testbed virtualization, Internet of Things, vehicular networks, SDN, NDN, large-scale testbed federation, mobile networks, wireless networks.

Official Gazette of the United States Patent and Trademark Office

Trademarks

Commerce Business Daily

Service Efficient Network

Interconnection Via Satellite

EU Cost Action 253

John Wiley & Sons A Local Area Network (LAN) is a network usually within a single office or building that links desktop computers with each other and with peripherals such as servers and printers. The interconnect is the electrical and functional association of two different services, often provided by different suppliers, and it is from LAN inter-connection that telecoms operators seek to profit. The application of LAN interconnection via satellite can be used to complement and extend existing terrestrial public access networks through interconnection of clusters of broadband islands (such as LANs and MANs) in remote regions, where terrestrial lines are expensive to install and operate. Examples include: * Hospitals/clinics in remote and rural areas can be connected to the central hospitals in a tele-medicine environment * Remote offices can be connected to the central office to facilitate tele-working * University/colleges can be inter-connected to provide tele-education facilities Similarly, the possibility to provide access to such facilities in developing regions of the world is also viable and particularly attractive in the short to mid-term. Private LAN connection facilities could also be made available to the corporate user, offering the possibility to establish broadband internet access within a closed user group. Such a scenario could be of interest to the financial sector. By gathering the knowledge and experiences of well-known satellite systems experts from different parts of Europe this comprehensive volume provides detailed analysis on technical aspects for interconnecting local area network using satellite. Starting from traffic source modelling for different types of applications and services to different types of transmission techniques and networking functions for supporting such services, different case studies are presented to analyse the performance of such technologies. By providing an insight to current and future developments in satellite communications systems and by covering a broad range of materials in technical aspects in relation to satellite communication systems technologies, this volume will be of tremendous use to researchers, academia and industry. * First book to present

such a thorough description of the reliability functions of satellite systems * Discusses IP over satellite * Provides a unique analysis and description of different simulation tools that are under development for evaluating the performance of satellite systems * Includes a chapter devoted to traffic modelling for satellite systems * Reviews current research and developments in security and discusses how such security functions can be implemented over satellite networks * Addresses different types of routing strategies and includes three different case studies which have been carried out to analyse the performance of different routing strategies

Optical Communications Essentials

McGraw Hill Professional * The most comprehensive introduction to optical communications available anywhere--from the author of Optical Fiber Communications, the field's leading text * Concise, illustrated module-style chapters quickly bring non-specialists up-to-speed * Extensive DWDM (Dense Wavelength Division Multiplexing) coverage * Advanced topics and limited math covered in side-bars' * Free space optical (wireless fiber optics)

Network Design

Management and Technical Perspectives

CRC Press Network Design outlines the fundamental principles and analytical techniques used in designing data networks. The text enables future managers and technical professionals to better understand and appreciate each other's perspective in the network design process. Network managers will need a sound grounding in basic design principles to effectively manage, plan, and assess the plethora of new technologies and equipment available for designing networks. They also must understand how requirements should be formulated and specified for design engineers. Similarly, network designers and engineers need a sound grounding in basic management principles to fully understand how organizational requirements best reflect design recommendations. Network Design enables network management and design professionals to work together toward achieving their respective goals in the network design process. It outlines basic techniques; reviews major challenges and issues; summarizes prevailing approaches and technologies; describes the specification, design, and planning data network topologies; and assesses specification and evaluation processes in designing and implementing data networks. This excellent, unique resource also : Emphasizes principles and analytical approaches that work independent of specific implementation of technology Includes case studies to illustrate how basic principles can be applied to realistic network design problems, considering both technical and management considerations Demystifies the design process, describing the lingua franca of both managers and design engineers in common terms Provides a better understanding of the total

network design process

Critical Information Infrastructures Security

4th International Workshop, CRITIS
2009, Bonn, Germany, September
30 - October 2, 2009, Revised
Papers

Springer This book constitutes the proceedings of the 4th International Workshop on
Critical Information Infrastructures Security, CRITIS 2009, held in Bonn, Germany,
during September 30 to October 2, 2009.

Application of Petri Nets to Communication Networks Advances in Petri Nets

Springer Science & Business Media Petri nets offer a mathematically defined
technique for the specification, design, analysis, verification and performance
evaluation of concurrent distributed systems. Communications networks, ranging
from traditional telecommunication systems to advanced Internet-based information
services, are inherently distributed and comprise systems with concurrently
operating components. This volume presents a selection of the latest advances in
the use of Petri nets for the modeling, analysis and management of communication
networks and systems in the broadest sense of these terms.

Galileo: a Tool for Simulation and Analysis of Real-time Networks

Abstract: "Galileo is a flexible tool for simulation of heterogeneous real-time
communication networks and for development and verification of network protocols.
Galileo provides several unique features that make it particularly suitable for the
simulation and analysis of networks that provide quality-of-service guarantees. First,
its object-oriented programming environment provides the means for a modular,
hierarchical, heterogenous description of networks. Second, its multimedia device

interface provides the tools for a qualitative analysis of network protocols. Finally, Galileo's network interface provides interaction with actual networks to access real data and simulate realistic multimedia scenarios."

QoS Over Heterogeneous Networks

John Wiley & Sons The importance of quality of service (QoS) has risen with the recent evolution of telecommunication networks, which are characterised by a great heterogeneity. While many applications require a specific level of assurance from the network; communication networks are characterized by different service providers, transmission means and implementer solutions such as asynchronous transfer mode (ATM), Internet protocol version 4 (IPv4), IPv6 and MPLS. Providing comprehensive coverage of QoS issues within heterogeneous network environments, "QoS Over Heterogeneous Networks" looks to find solutions to questions such as does QoS fit within heterogeneous networks and what is the impact on performance if information traverses different network portions that implement specific QoS schemes. Includes: A series of algorithms and protocols to help solve potential QoS problems. State of the art case studies and operative examples to illustrate points made. Information on QoS mapping in terms of service-level specification (SLS) and an in-depth discussion of related issues Chapters end-to-end (E2E) QoS, QoS architecture, QoS over heterogeneous networks and QoS internetworking and mapping. An ideal book for graduate students, researchers and lecturers. System designers, developers and engineers will also find "QoS Over Heterogeneous Networks" a valuable reference.

Handbook of Computer Networks and Cyber Security

Principles and Paradigms

Springer Nature This handbook introduces the basic principles and fundamentals of cyber security towards establishing an understanding of how to protect computers from hackers and adversaries. The highly informative subject matter of this handbook, includes various concepts, models, and terminologies along with examples and illustrations to demonstrate substantial technical details of the field. It motivates the readers to exercise better protection and defense mechanisms to deal with attackers and mitigate the situation. This handbook also outlines some of the exciting areas of future research where the existing approaches can be implemented. Exponential increase in the use of computers as a means of storing and retrieving security-intensive information, requires placement of adequate security measures to safeguard the entire computing and communication scenario. With the advent of Internet and its underlying technologies, information security aspects are becoming a prime concern towards protecting the networks and the cyber ecosystem from variety of threats, which is illustrated in this handbook. This handbook primarily targets professionals in security, privacy and trust to use and

improve the reliability of businesses in a distributed manner, as well as computer scientists and software developers, who are seeking to carry out research and develop software in information and cyber security. Researchers and advanced-level students in computer science will also benefit from this reference.

Network World

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.

Computer Networks and Simulation II

North Holland

Advances in Wireless Networks

Performance Modelling, Analysis and Enhancement

Nova Publishers Recent years have witnessed tremendous growth in the population of mobile users demanding high performance, reliability and quality-of-service (QoS). Wireless networks are undergoing rapid developments and dramatic changes in the underlying technologies, in order to cope with the difficulties posed by the scarce wireless resource as well as keep up with the increasing day-to-day demand for cost-effective service of multimedia applications. Predicting and optimising the performance and QoS of wireless networks using analytical modelling, simulation experiments, monitoring and testbed-based measurements are crucial to the proper design, tuning, resource management and capacity planning of such networks. This book is dedicated to review important developments and results, explore recent state-of-the-art research and discuss new strategies for performance modelling, analysis and enhancement of wireless networks. The objective is to make analytical modelling, simulation and measurement tools, and innovative performance evaluation methodology possible and understandable to a wider audience.

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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.

YOUTH CARE KNOWLEDGE EXCHANGE THROUGH ONLINE SIMULATION GAMING

Designing and appreciating online simulation games to enhance youth care knowledge exchange

Kees JM van Haaster, Amersfoort-NL Youth care multi-disciplinary networks need flexible, interactive and attractive tools and methods for knowledge exchange in view of timely, effective and durable help in complex parenting problem situations. Social media, virtuality, simulation and gaming gain an increasing significance in the way people share information, learn and organize themselves. This leads to the question whether youth care practice is ready to adopt some online practicalities for network exchange. This design study describes model development and model appreciation of online role-play simulation gaming as a time, pace and place independent way to share expertise, information and knowledge among the actors in youth care practice. The results show that youth care professionals think that simulation gaming is relevant and convenient to unravel difficult issues, to elaborate network strategies, and to jointly reflect on intervention. The research is unique in domains of youth care intervention and in game theory. The singularity of contexts and actors is taken as starting point in a cross-over of game design and behavioral science. Online role-play simulation gaming leads to a better understanding of complexity in youth care situations and to a greater awareness of network capacities and capabilities and helps to establish accountability of choices of intervention.

Transmission Systems Design Handbook for Wireless Networks

Artech House This practical new resource gives you a comprehensive understanding of the design and deployment of transmission networks for wireless applications. From principles and design, to equipment procurement, project management, testing, and operation, it's a practical, hands-on engineering guide with numerous

real-life examples of turn-key operations in the wireless networking industry. This book, written for both technical and non-technical professionals, helps you deal with the costs and difficulties involved in setting up the local access with technologies that are still in the evolutionary stage. Issues involved in the deployment of various transmission technologies, and their impact on the overall wireless network topology are discussed. Strategy and approach to transmission network planning, design and deployment are explored. The book offers practical guidelines and advice derived from the author's own experience on projects worldwide. You gain a solid grounding in third generation wireless networks with increased capacity requirements, while learning all about packet data architecture, and how it will impact future transmission network design and deployment.

Advanced Principles for Improving Database Design, Systems Modeling, and Software Development

IGI Global "This book presents cutting-edge research and analysis of the most recent advancements in the fields of database systems and software development"--
Provided by publisher.