

# NETWORK SIMULATION EXPERIMENTS MANUAL

Prepared by Professor Emad Aboelela

# Computer Networks

FIFTH EDITION

a systems approach

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Network Simulation Experiments Manual Emad Aboelela, 2007-12-05 Network Simulation Experiments Manual Second Edition enables networking professionals to visualize how networks work by providing free access to easy-to-install OPNET software. This software provides a virtual environment for modeling, analyzing, and predicting the performance of IT infrastructures including applications, servers, and networking technologies. The book also goes a step further by providing detailed experiments on core networking topologies for use in this simulation environment. Each experiment is also accompanied by review questions, a lab report, and exercises. This book is recommended for graduate students and networking designers and professionals. Useful experimentation for professionals in the workplace who are interested in learning and demonstrating the capability of evaluating different commercial networking products. The experiments in this manual are closely tied to Peterson/Davie Computer Networks fourth edition, a best-selling Morgan Kaufmann title, making it a perfect companion book.

**Network Simulation Experiments Manual** Emad Aboelela, 2011-04-13 Network Simulation Experiments Manual Third Edition is a practical tool containing detailed simulation-based experiments to help students and professionals learn about key concepts in computer networking. It allows the networking professional to visualize how computer networks work with the aid of a software tool called OPNET to simulate network function. OPNET provides a virtual environment for modeling, analyzing, and predicting the performance of IT infrastructures including applications, servers, and networking technologies. It can be downloaded free of charge and is easy to install. The book's simulation approach provides a virtual environment for a wide range of desirable features such as modeling a network based on specified criteria and analyzing its performance under different scenarios. The experiments include the basics of using OPNET: IT Guru Academic Edition, operation of the Ethernet network, partitioning of a physical network into separate logical networks using virtual local area networks (VLANs), and the basics of network design. Also covered are congestion control algorithms implemented by the Transmission Control Protocol (TCP), the effects of various queuing disciplines on packet delivery and delay for different services, and the role of firewalls and virtual private networks (VPNs) in providing security to shared public networks. Each experiment in this updated edition is accompanied by review questions, a lab report, and exercises. Networking designers and professionals as well as graduate students will find this manual extremely helpful. Updated and expanded by an instructor who has used OPNET simulation tools in his classroom for numerous demonstrations and real-world scenarios. Software download based on an award-winning product made by OPNET Technologies Inc, whose software is used by thousands of commercial and government organizations worldwide and by over 500 universities. Useful experimentation for professionals in the workplace who are interested in learning and demonstrating the capability of evaluating different commercial networking products, i.e., Cisco routers. Covers the core networking topologies and includes assignments on Switched LANs, Network Design, CSMA, RIP, TCP, Queuing Disciplines, Web Caching, etc.

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Emad Aboelela,2008-01-01      **Wireless Networking** Anurag Kumar,D. Manjunath,Joy Kuri,2008-05-09 Over the past decade the world has witnessed an explosion in the development and deployment of new wireless network technologies From cellular mobile telephony to the ubiquitous WiFi networks in coffee shops and airports to the emerging WiMAX wireless broadband access networks the menu of wireless access systems has become so comprehensive that wireline access to user devices may soon become a relic of the past Wireless Networking serves as a one stop view of cellular WiFi and WiMAX networks as well as the emerging wireless ad hoc and sensor networks Rather than provide descriptive accounts of these technologies and standards the book emphasizes conceptual perspectives on the modeling analysis design and optimization of such networks Furthermore the authors present wireless networking within the unifying framework of resource allocation using simple abstractions of the underlying physical wireless communication In short Wireless Networking is an in depth exhaustive and invaluable asset to anyone working in this rapidly evolving field Goes beyond descriptive and qualitative treatments by presenting the foundations underlying the various wireless networking technologies Provides abstractions models and analyses of established and emerging wireless networks thereby supplying the reader with a conceptual and quantitative treatment thus ensuring longevity of the learning from this material Aids comprehension by including over 120 figures four appendices on the mathematics of the various models several inline exercises and extensive problem sets at the end of each chapter

**Technical, Commercial and Regulatory Challenges of QoS** XiPeng Xiao,2008-10-27 Technical Commerical and Regulatory Challenges of QoS provides a comprehensive examination of Internet QoS theory standards vendor implementation and network deployment from the practitioner s point of view including extensive discussion of related economic and regulatory issues Written in a technology light way so that a variety of professionals and researchers in the information and networking industries can easily grasp the material Includes case studies based on real world experiences from industry The author starts by discussing the economic regulatory and technical challenges of the existing QoS model Key coverage includes defining a clear business model for selling and buying QoS in relation to current and future direction of government regulation and QoS interoperability or lack thereof between carriers and networking devices The author then demonstrates how to improve the current QoS model to create a clear selling point less regulation uncertainty and higher chance of deployment success This includes discussion of QoS re packaging to end users economic and regulatory benefits of the re packaging and the overall benefits of an improved technical approach Finally the author discusses the future evolution of QoS from an Internet philosophy perspective and lets the reader draw the conclusions This book is the first QoS book to provide in depth coverage on the commercial and regulatory aspects of QoS in addition to the technical aspect From that readers can grasp the commercial and regulatory issues of QoS and their implications on the overall QoS business model This book is also the first QoS book to provide case studies of real world QoS deployments contributed by the people who did the actual deployments From that readers can grasp the practical issues of QoS in real world This book is

also the first QoS book to cover both wireline QoS and wireless QoS Readers can grasp the QoS issues in the wireless world The book was reviewed and endorsed by a long list of prominent industrial and academic figures Discusses QoS technology in relation to economic and regulatory issues Includes case studies based on real world examples from industry practitioners Provides unique insight into how to improve the current QoS model to create a clear selling point less regulatory uncertainty and higher chance of deployment success

**Testbeds and Research Infrastructures, Development of Networks and Communities** Thomas Magedanz, Athanasios Gavras, Huu Thanh Nguyen, Jeffrey S. Chase, 2010-12-15 This book constitutes the proceedings of the 6th International ICST Conference TridentCom 2010 held in Berlin Germany in May 2010 Out of more than 100 submitted contributions the Program Committee finally selected 15 full papers 26 practice papers and 22 posters They focus on topics as Internet testbeds future Internet research wireless sensors media and mobility and monitoring in large scale testbeds

*Proceedings of the 4th International Conference on Frontiers of Electronics, Information and Computation Technologies (ICFEICT 2024)* Weijian Liu, Qi Wang, Jinchao Feng, Wenli Zhang, 2025-05-09 This book contains papers that have been carefully compiled from the fourth International Conference on Frontiers of Electronics Information and Computation Technologies ICFEICT which was held in Beijing from June 22 to June 24 2024 These papers have undergone rigorous review processes and adhere to strict standards The primary goal of the conference is to promote research and development efforts in these areas while fostering the exchange of scientific information The intended audience for the papers presented at ICFEICT 2024 will primarily be leading academic scientists researchers scholars educators developers engineers students and practitioners working globally in the areas of electronics engineering communications and computing

Testbeds and Research Infrastructures for the Development of Networks and Communications Honghao Gao, Kuang Li, Xiaoxian Yang, Yuyu Yin, 2020-03-04 This book constitutes the refereed post conference proceedings of the 14th EAI International Conference on Testbeds and Research Infrastructures for the Development of Networks and Communications TridentCom 2019 held in Changsha China The 10 full papers were selected from 62 submissions and are grouped into three sessions AI and Internet Computing QoS Reliability Modeling and Testing and Wireless Networking and Multimedia Application

**Computer Networks LAB MANUAL (A Complete Lab Experiments with Programmable Solutions)** Na Vikraman, 2019-10-04 This course provides students with hands on training regarding the design troubleshooting modeling and evaluation of computer networks In this course students are going to experiment in a real test bed networking environment and learn about network design and troubleshooting topics and tools such as network addressing Address Resolution Protocol ARP basic troubleshooting tools e g ping ICMP IP routing e g RIP route discovery e g traceroute TCP and UDP IP fragmentation and many others Student will also be introduced to the network modeling and simulation and they will have the opportunity to build some simple networking models using the tool and perform simulations that will help them evaluate their design approaches and expected network performance

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