



Cheng-Shang Chang

# PERFORMANCE GUARANTEES IN COMMUNICATION NETWORKS



Springer

# Performance Guarantees In Communication Networks

# Performance Guarantees In Communication Networks

**Wai Kai Chen**



## **Performance Guarantees In Communication Networks Performance Guarantees In Communication Networks:**

Performance Guarantees in Communication Networks Cheng-Shang Chang, 2012-12-06 Providing performance guarantees is one of the most important issues for future telecommunication networks This book describes theoretical developments in performance guarantees for telecommunication networks from the last decade Written for the benefit of graduate students and scientists interested in telecommunications network performance this book consists of two parts The first introduces the recently developed filtering theory for providing deterministic hard guarantees such as bounded delay and queue length The filtering theory is developed under the min plus algebra where one replaces the usual addition with the min operator and the usual multiplication with the addition operator As in the classical linear system theory the filtering theory treats an arrival process or a departure process as a signal and a network element as a system Network elements including traffic regulators and servers can be modelled as linear filters under the min plus algebra and they can be joined by concatenation filter bank summation and feedback to form a composite network element The problem of providing deterministic guarantees is equivalent to finding the impulse response of composite network elements This section contains material on s r calculus Filtering theory for deterministic traffic regulation service guarantees and networks with variable length packets Traffic specification Networks with multiple inputs and outputs Constrained traffic regulation The second part of the book addresses stochastic soft guarantees focusing mainly on tail distributions of queue lengths and packet loss probabilities and contains material on s q r q calculus and q envelope rates The large deviation principle The theory of effective bandwidth The mathematical theory for stochastic guarantees is the theory of effective bandwidth Based on the large deviation principle the theory of effective bandwidth provides approximations for the bandwidths required to meet stochastic guarantees for both short range dependent inputs and long range dependent inputs **A Framework for**

**Performance Guarantees in Adaptive Communication Networks** Clayton Mitsuo Okino, 1998 *Charging Communication Networks* D.J. Songhurst, 1999-06-03 This book proposes that usage based charging schemes are essential to generate the incentives necessary for efficient operation of multiservice networks The rapid development of network technology is enabling sophisticated new services and applications which demand new charging models The same technology provides the means to operate the right charging schemes Some of the work done in the European collaborative project CA hMAN Charging and Accounting Schemes in Multiservice ATM Networks This project combined performance and economic models of network resource usage and customer utility to construct simple but effective charging schemes which were implemented and trialled in an advanced management platform NETWORKING 2000. Broadband Communications, High Performance Networking, and Performance of Communication Networks Guy Pujolle, Harry Perros, Serge Fdida, Ulf Körner, Ioannis Stavrakakis, 2003-06-29 This was the first conference jointly organized by the IFIP Working Groups 6.2, 6.3 and 6.4 Each of these three Working Groups has its own established series of conferences Working Group 6.2 sponsors the

Broadband Communications series of conferences Paris 1995 Montreal 1996 Lisboa 1997 Stuttgart 1998 and Hong Kong 1999 Working Group 6 3 sponsors the Performance of Communication Systems series of conferences Paris 1981 Zurich 1984 Rio de Janeiro 1987 Barcelona 1990 Raleigh 1993 Istanbul 1995 and Lund 1998 Working Group 6 4 sponsors the High Performance Networking series of conferences Aachen 1987 Linz 1988 Berlin 1990 Linz 1992 Grenoble 1994 Palma 1995 New York 1997 Vienna 1998 It is expected that this new joint conference will take place every two years In view of the three sponsoring Working Groups there were three separate tracks one per Working Group Each track was handled by a different co chairman Specifically the track of Working Group 6 2 was handled by Ulf Kerner the track of Working Group 6 3 was handled by Ioannis Stavrakakis and the track of Working Group 6 4 was handled by Serge Fdida The overall program committee chairman was Harry Perros and the general conference chairman was Guy Pujolle A total of 209 papers were submitted to the conference of which 82 were accepted Each paper was submitted to one of the three tracks

Communication Networks and Service Management in the Era of Artificial Intelligence and Machine Learning Nur Zincir-Heywood, Marco Mellia, Yixin Diao, 2021-09-03 COMMUNICATION NETWORKS AND SERVICE MANAGEMENT IN THE ERA OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING Discover the impact that new technologies are having on communication systems with this up to date and one stop resource Communication Networks and Service Management in the Era of Artificial Intelligence and Machine Learning delivers a comprehensive overview of the impact of artificial intelligence AI and machine learning ML on service and network management Beginning with a fulsome description of ML and AI the book moves on to discuss management models architectures and frameworks The authors also explore how AI and ML can be used in service management functions like the generation of workload profiles service provisioning and more The book includes a handpicked selection of applications and case studies as well as a treatment of emerging technologies the authors predict could have a significant impact on network and service management in the future Statistical analysis and data mining are also discussed particularly with respect to how they allow for an improvement of the management and security of IT systems and networks Readers will also enjoy topics like A thorough introduction to network and service management machine learning and artificial intelligence An exploration of artificial intelligence and machine learning for management models including autonomic management policy based management intent based management and network virtualization based management Discussions of AI and ML for architectures and frameworks including cloud systems software defined networks 5G and 6G networks and Edge Fog networks An examination of AI and ML for service management including the automatic generation of workload profiles using unsupervised learning Perfect for information and communications technology educators Communication Networks and Service Management in the Era of Artificial Intelligence and Machine Learning will also earn a place in the libraries of engineers and professionals who seek a structured reference on how the emergence of artificial intelligence and machine learning techniques is affecting service and network management

**Communication Networks** R. Srikant, Lei Ying, 2014 A modern mathematical approach to the design of communication networks for graduate students blending control optimization and stochastic network theories alongside a broad range of performance analysis tools Practical applications are illustrated by making connections to network algorithms and protocols End of chapter problems covering a range of difficulties support student learning

**Pricing Communication Networks** Costas Courcoubetis, Richard Weber, 2003-07-25 Traditionally engineers devised communication services without reference to how they should be priced In today's environment pricing is a very complex subject and in practice depends on many parameters of the actual market including amount of traffic architecture of the network technology and cost The challenge is to provide a generic service model which accurately captures aspects such as quality and performance and can be used to derive optimal pricing strategies Recent technology advances combined with the deregulation of the telecommunication market and the proliferation of the internet have created a highly competitive environment for communication service providers Pricing is no longer as simple as picking an appropriate model for a particular contract There is a real need for a book that explains the provision of new services the relation between pricing and resource allocation in networks and the emergence of the internet and how to price it Pricing Communication Networks provides a framework of mathematical models for pricing these multidimensional contracts and includes background in network services and contracts network technology basic economics and pricing strategy It can be used by economists to fill in the gaps in their knowledge of network services and technology and for engineers and operational researchers to gain the background in economics required to price communication services effectively Provides a broad overview of network services and contracts Includes a primer on modern network technology and the economic concepts relevant to pricing and competition Includes discussion of mathematical models of traffic flow to help describe network capability and derive pricing strategies Includes coverage of specialist topics such as regulation multicasting and auctions Illustrated throughout by detailed real examples Suitable for anyone with an understanding of basic calculus and probability Primarily aimed at graduate students researchers and practitioners from electrical engineering computer science economics and operations research Pricing Communication Networks will also appeal to telecoms engineers working in industry

Worldwide Advances in Communication Networks Bijan Jabbari, 2013-06-29 The symposium on Worldwide Advances in Communications Networks which was held on May 14 15 1992 at GMU was an ambitious attempt to bring together leaders in the communications area to discuss the major issues in this rapidly changing technology The symposium was a success and many of the ideas presented at the conference are being implemented This proceeding contains the majority of the papers presented at the symposium and abstracts of the remainder The papers may be divided into seven general categories The first five papers explore some important design issues for high speed networks gigabit networks Traffic modelling quality of service guarantees switching alternatives and routing are discussed The next two papers focus on applications for broadband communications Weinstein begins by asking ARE THERE

ANY APPLICATIONS and then proceeds to develop a wide variety of potential uses Personick concentrates on multimedia applications The next three papers deal with Personal Communications Services PCS and the notion of communicating with anyone at any time anywhere Several of the key technical issues such as CDMA vs TDMA are analyzed in detail The fourth area is satellite communications Two papers discuss some of the major changes that are taking place and potential new systems The next two papers discuss signal coding and digital video Jayant provides an excellent overview of the impressive capabilities that are available for the compression of speech audio image and video signals Bellisio concentrates on video encoding

*Principles of Data Transfer Through Communications Networks, the Internet, and Autonomous Mobiles* Izhak Rubin, 2024-12-24 Understand the principles and practical basis of global telecommunications and data communications networks with this essential text Our increasingly connected world is more reliant than ever on data transport and the communication networking technologies of the moment Ever expanding wireless communications and the Internet of Things have brought connectivity into more areas of our lives than ever before Virtually every workplace and industry is now reliant at some level on data transfer Principles of Data Transfer through Communications Networks the Internet and Autonomous Mobiles offers a comprehensive yet accessible overview of the principles and methods of computer communications and mobile wireless network systems It s designed to equip a vast range of students and professionals with the necessary toolkit to manage data flows between and across network systems at various scales Drawing upon decades of teaching and practical experience it s a must own resource for anyone looking to understand the core mechanics that power our world of mass communications Readers will also find Coverage of cutting edge technologies such as autonomous vehicular highways that draw upon novel communications technologies Detailed discussion of design and performance behavior for major communication networking technologies Treatment designed for readers with no prior knowledge of computer science or programming Principles of Data Transfer through Communications Networks the Internet and Autonomous Mobiles is ideal for students in data communications telecommunications and wireless networking technology courses as well as professionals working in data communications industries or those who make use of data transfer communications networks as part of their work

*Communication Networking* Anurag Kumar,D. Manjunath,Joy Kuri, 2004-05-07 This book focuses on the three building blocks of communication networking namely multiplexing switching and routing The approach is analytical with the discussion being driven by mathematical analyses of and solutions to specific engineering problems back cover

**Analytical and Stochastic Modelling Techniques and Applications** Marco Gribaudo,Eduard Sopin,Irina Kochetkova, 2020-11-07 This book constitutes the refereed proceedings of the 25th International Conference on Analytical and Stochastic Modelling Techniques and Applications ASMTA 2019 held in Moscow Russia in October 2019 Methods of analytical and stochastic modelling are widely used in engineering to assess and design various complex systems like computer and communication networks and manufacturing systems The 13 full papers presented in this book were carefully

reviewed and selected from 22 submissions The papers detail a diverse range of analysis techniques including Markov processes queueing theoretical results reliability of stochastic systems stochastic network calculus and wide variety of applications

**Quality of Service in Multiservice IP Networks** Marco Ajmone Marsan, Giorgio Corazza, Marco Listanti, Aldo Roveri, 2007-12-05 This book constitutes the refereed proceedings of the Second International Workshop on Quality of Service in Multiservice IP Networks QoS IP 2003 held in Milano Italy in February 2003 The 53 revised full papers presented together with an invited paper were carefully reviewed and selected from 97 submissions The papers are organized in topical sections on analytical models QoS routing measurements and experimental results QoS below IP end to end QoS in IP networks QoS multicast optical networks reconfigurable protocols and networks provision of multimedia services QoS in multidomain networks congestion and admission control and architectures and protocols for QoS provision

**Quantitative Evaluation of Systems** Gul Agha, Benny Van Houdt, 2016-08-02 This book constitutes the proceedings of the 13th International Conference on Quantitative Evaluation Systems QEST 2016 held in Quebec City Canada in August 2016 The 21 full papers and 3 tool demonstration papers presented were carefully reviewed and selected from 46 submissions They are organized in topical sections entitled Markov processes tools sampling inference and optimization methods Markov decision processes and Markovian analysis networks

**Quantitative Assessments of Distributed Systems** Dario Bruneo, Salvatore Distefano, 2015-04-08 Distributed systems employed in critical infrastructures must fulfill dependability timeliness and performance specifications Since these systems most often operate in an unpredictable environment their design and maintenance require quantitative evaluation of deterministic and probabilistic timed models This need gave birth to an abundant literature devoted to formal modeling languages combined with analytical and simulative solution techniques The aim of the book is to provide an overview of techniques and methodologies dealing with such specific issues in the context of distributed systems and covering aspects such as performance evaluation reliability availability energy efficiency scalability and sustainability Specifically techniques for checking and verifying if and how a distributed system satisfies the requirements as well as how to properly evaluate non functional aspects or how to optimize the overall behavior of the system are all discussed in the book The scope has been selected to provide a thorough coverage on issues models and techniques relating to validation evaluation and optimization of distributed systems The key objective of this book is to help to bridge the gaps between modeling theory and the practice in distributed systems through specific examples

*The Competitive Internet Service Provider* Oliver M. Heckmann, 2007-03-13 Due to the dramatic increase in competition over the last few years it has become more and more important for Internet Service Providers ISPs to run an efficient business and offer an adequate Quality of Service The Competitive Internet Service Provider is a comprehensive guide for those seeking to do just that Oliver Heckmann approaches the issue from a system point of view looking not only at running a network but also at connecting the network with peering and transit partners or planning the expansion of the

network The Competitive Internet Service Provider Offers an advanced reference on the topic drawing on state of the art research in network technology Clearly defines the criteria enabling ISPs to operate with the greatest efficiency and deliver adequate Quality of Service Discusses the implications of the future multiservice Internet and multimedia applications such as Voice over IP peer to peer or network games Delivers a comparative evaluation of different feasible Quality of Service approaches Explores scientific methods such as queuing theory network calculus and optimization theory Illustrates concepts throughout with mathematical models and simulations This invaluable reference will provide academic and industrial researchers in the field of network and communications technology graduate students on telecommunications courses as well as ISP managers engineers and technicians equipment manufacturers and consultants with an understanding of the concepts and issues involved in running a successful ISP

Measurement, Modeling, and Evaluation of Computing Systems and Dependability and Fault Tolerance Jens B. Schmitt, 2012-03-08 This book constitutes the refereed proceedings of the 16th International GI ITG Conference on Measurement Modeling and Evaluation of Computing Systems and Dependability and Fault Tolerance MMB DFT 2012 held in Kaiserslautern Germany in March 2012 The 16 revised full papers presented together with 5 tool papers and 5 selected workshop papers were carefully reviewed and selected from 54 submissions MMB DFT 2012 covers diverse aspects of performance and dependability evaluation of systems including networks computer architectures distributed systems software fault tolerant and secure systems

*The Electrical Engineering Handbook* Wai Kai Chen, 2004-11-16 The Electrical Engineer s Handbook is an invaluable reference source for all practicing electrical engineers and students Encompassing 79 chapters this book is intended to enlighten and refresh knowledge of the practicing engineer or to help educate engineering students This text will most likely be the engineer s first choice in looking for a solution extensive complete references to other sources are provided throughout No other book has the breadth and depth of coverage available here This is a must have for all practitioners and students The Electrical Engineer s Handbook provides the most up to date information in Circuits and Networks Electric Power Systems Electronics Computer Aided Design and Optimization VLSI Systems Signal Processing Digital Systems and Computer Engineering Digital Communication and Communication Networks Electromagnetics and Control and Systems About the Editor in Chief Wai Kai Chen is Professor and Head Emeritus of the Department of Electrical Engineering and Computer Science at the University of Illinois at Chicago He has extensive experience in education and industry and is very active professionally in the fields of circuits and systems He was Editor in Chief of the IEEE Transactions on Circuits and Systems Series I and II President of the IEEE Circuits and Systems Society and is the Founding Editor and Editor in Chief of the Journal of Circuits Systems and Computers He is the recipient of the Golden Jubilee Medal the Education Award and the Meritorious Service Award from the IEEE Circuits and Systems Society and the Third Millennium Medal from the IEEE Professor Chen is a fellow of the IEEE and the American Association for the Advancement of Science 77 chapters encompass the entire field of electrical engineering THOUSANDS of



valuable figures tables formulas and definitions Extensive bibliographic references Quality for All Gunnar Karlsson, Michael I. Smirnov, 2003-11-03 The Internet has nearly a ten year history as a global public communication infrastructure The two applications that have created the demand from private and business users have been the World Wide Web and electronic mail We have in the last few years seen the rapidly emerging popularity of peer to peer sharing of files mostly for music and to a more limited extent also the introduction of Internet telephony television and radio These services place demands on the infrastructure that are higher with respect to quality and connectivity than web surfing and e mail Mobile cellular telephony has rivaled the Internet with respect to growth during the last decade The hitherto separate networks are now set to merge into a mobile Internet that will give wireless access to all Internet services The ambition behind the Internet's continuing development is that it should serve as a general purpose infrastructure and provide adequate support for all types of applications in terms of quality connectivity and cost Thus the demands made on all Internet services must also be met by wireless access and the circuit quality of a voice connection for mobile telephony must also be provided in the wired IP networks

*Stochastic Models in Reliability, Network Security and System Safety* Quan-Lin Li, Jinting Wang, Hai-Bo Yu, 2019-10-21 This book is dedicated to Jinhua Cao on the occasion of his 80th birthday Jinhua Cao is one of the most famous reliability theorists His main contributions include published over 100 influential scientific papers published an interesting reliability book in Chinese in 1986 which has greatly influenced the reliability of education academic research and engineering applications in China initiated and organized Reliability Professional Society of China the first part of Operations Research Society of China since 1981 The high admiration that Professor Cao enjoys in the reliability community all over the world was witnessed by the enthusiastic response of each contributor in this book The contributors are leading researchers with diverse research perspectives The research areas of the book include a broad range of topics related to reliability models queueing theory manufacturing systems supply chain finance risk management Markov decision processes blockchain and so forth The book consists of a brief Preface describing the main achievements of Professor Cao followed by congratulations from Professors Way Kuo and Wei Wayne Li and by Operations Research Society of China and Reliability Professional Society of China and further followed by 25 articles roughly grouped together Most of the articles are written in a style understandable to a wide audience This book is useful to anyone interested in recent developments in reliability network security system safety and their stochastic modeling and analysis

**Measurement, Modelling and Evaluation of Computing Systems** Reinhard German, Kai-Steffen Hielscher, Udo R. Krieger, 2018-02-16 This book constitutes the proceedings of the 19th International GI/ITG Conference on Measurement Modelling and Evaluation of Computing Systems MMB 2018 held in Erlangen Germany in February 2018 The 16 full papers 4 PhD track papers and 9 tool papers presented in this volume were carefully reviewed and selected from 42 submissions They are dealing with performance and dependability evaluation techniques for computer and communication systems and its related fields

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