R. Srikant

The Mathematics of Internet Congestion Control

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Timothy Gowers,June Barrow-Green,Imre Leader

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The Mathematics of Internet Congestion Control Rayadurgam Srikant,2004 Recommended by T Basar SC series ed This text addresses a new active area of research and fills a gap in the literature Bridges mathematics engineering and computer science considers stochastic and optimization aspects of congestion control in Internet data transfers Useful as a supplementary text also suitable for researchers   The Mathematics of Internet Congestion Control Rayadurgam Srikant,2012-12-06 Congestion control algorithms were implemented for the Internet nearly two decades ago but mathematical models of congestion control in such a large scale network are relatively new This text presents models for the development of new protocols that can help make Internet data transfers virtually loss and delay free Introduced are tools from optimization control theory and stochastic processes integral to the study of congestion control algorithms Intended for graduate students and researchers in systems theory and computer science the text assumes basic knowledge of first year graduate level control theory optimization and stochastic processes but the key prerequisites are summarized in an appendix for quick reference The work s wide range of applications to the study of both new and existing protocols and control algorithms make the book of interest to researchers and students concerned with many aspects of large scale information flow on the Internet   **Internet Congestion Control** Subir Varma,2015-08-18 Internet Congestion Control provides a description of some of the most important topics in the area of congestion control in computer networks with special emphasis on the analytical modeling of congestion control algorithms The field of congestion control has seen many notable advances in recent years and the purpose of this book which is targeted towards the advanced and intermediate reader is to inform about the most important developments in this area The book should enable the reader to gain a good understanding of the application of congestion control theory to a number of application domains such as Data Center Networks Video Streaming High Speed Links and Broadband Wireless Networks When seen through the lens of analytical modeling there are a number of common threads that run through the design and analysis of congestion control protocols in all these different areas which are emphasized in this book The book also cuts a path through the profusion of algorithms in the literature and puts the topic on a systematic and logical footing Internet Congestion Control provides practicing network engineers and researchers with a comprehensive and accessible coverage of analytical models of congestion control algorithms and gives readers everything needed to understand the latest developments and research in this area Examines and synthesizes the most important developments in internet congestion control from the last 20 years Provides detailed description on the congestion control protocols used in four key areas broadband wireless networks high speed networks with large latencies video transmission networks and data center networks Offers accessible coverage of advanced topics such as Optimization and Control Theory as applied to congestion control systems   *Mathematical Principles of the Internet, Volume 1* Nirdosh Bhatnagar,2018-11-20 This two volume set on Mathematical Principles of the Internet provides a comprehensive overview of

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established using the Lyapunov method in the network fluid model Simulation results are provided to evaluate the proposed schemes in practical networks **Fuzzy Information and Engineering** Bingyuan Cao,Cheng-Yi Zhang,Tai-Fu Li,2009-01-04 This book is the proceedings of the Third Annual Conference on Fuzzy Information and Engineering ACFIE2008 from Dec 5 10 2008 in Haikou China The conf ence proceedingsis published by Springer Verlag Advancesin Soft Computing ISSN 1615 3871 This year we have received 155 submissions Each paper has undergone a rigorous review process Only high quality papers are included The Third Annual Conference on Fuzzy Information and Engineering ACFIE2008 built on the success of previous conferences the ACFIE2005 Guangzhou China is a major symposium for scientists engineers and practitioners in China to present their updated results ideas devel ments and applications in all areas of fuzzy information and engineering It aims to strengthen relations between industry research laboratoriesand universities and to c ate a primary symposium for world scientists in fuzzy elds as follows 1 Fuzzy intelligence neural networks and optimal 2 Fuzzy algebra 3 Fuzzy analysis 4 Fuzzy systems and logic 5 Fuzzy topology and measure 6 Fuzzy probability control forecasting and decision making 7 Fuzzy clustering and fuzzy algorithms 8 Application in fuzzy sets 9 Rough sets and its application etc This book contains 80 papers divided into nine main parts In Section I we have 9 papers on fuzzy intelligence neural networks and optimal In Section II we have 11 papers on fuzzy algebra In Section III we have 9 papers on fuzzy analysis In Section IV we have 9 papers on fuzzy systems and logic In Section V we have 9 papers on fuzzy topology and measure **Next Generation Teletraffic and Wired/Wireless Advanced Networking** Yevgeni Koucheryavy,Jarmo Harju,Villy B. Iversen,2006-09-21 This book constitutes the refereed proceedings of the 6th International Conference on Next Generation Teletraffic and Wired Wireless Advanced Networking NEW2AN 2006 held in St Petersburg Russia in May June 2006 The book includes 49 revised full papers presented together with 2 keynote talks 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 Wireless Systems and Mobility in Next Generation Internet Jorge García-Vidal,2007-02-28 This book constitutes the thoroughly refereed postproceedings of the Third International Workshop on Wirelss and Mobility organized by the European Network of Excellence on Next Generation Internet EURO NGI 2006 held in Sitges Spain in June 2006 The 19 revised full research papers presented were carefully selected during two rounds of reviewing and improvement The papers are organized in topical sections on WLAN characterization vehicular networks WLAN and sensor networks protocols QoS and routing in ad hoc networks heterogeneous networks resource management in cellular networks TCP in wireless and mobility agents **Complex Dynamics in Communication Networks** Ljupco Kocarev,2005-06-13 Computer and communication networks are among society s most important infrastructures The internet in particular is a giant global network of networks without central control or administration It is a paradigm of a complex system where complexity may arise from different sources topological structure network evolution

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those on the engineering episodes and an effort has been made to make this work succinct yet self contained Elements of information theory algebraic coding theory cryptography Internet traffic dynamics and control of Internet congestion and queueing theory are discussed In addition stochastic networks graph theoretic algorithms application of game theory to the Internet Internet economics data mining and knowledge discovery and quantum computation communication and cryptography are also discussed In order to study the structure and function of the Internet only a basic knowledge of number theory abstract algebra matrices and determinants graph theory geometry analysis optimization theory probability theory and stochastic processes is required These mathematical disciplines are defined and developed in the books to the extent that is needed to develop and justify their application to Internet engineering **Handbook of Optimization in Complex Networks** My T. Thai,Panos M. Pardalos,2011-11-25 Complex Social Networks is a newly emerging hot topic with applications in a variety of domains such as communication networks engineering networks social networks and biological networks In the last decade there has been an explosive growth of research on complex real world networks a theme that is becoming pervasive in many disciplines ranging from mathematics and computer science to the social and biological sciences Optimization of complex communication networks requires a deep understanding of the interplay between the dynamics of the physical network and the information dynamics within the network Although there are a few books addressing social networks or complex networks none of them has specially focused on the optimization perspective of studying these networks This book provides the basic theory of complex networks with several new mathematical approaches and optimization techniques to design and analyze dynamic complex networks A wide range of applications and optimization problems derived from research areas such as cellular and molecular chemistry operations research brain physiology epidemiology and ecology

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