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Performance Modeling, Loss Networks, and Statistical Multiplexing

Ravi Mazumdar

***SYNTHESIS LECTURES ON
COMMUNICATION NETWORKS***

Jean Walrand, Series Editor

Performance Modeling Loss Networks And Statistical Multiplexing Ravi Mazumdar

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Performance Modeling, Loss Networks, and Statistical Multiplexing Ravi Mazumdar, 2022-11-10 This monograph presents a concise mathematical approach for modeling and analyzing the performance of communication networks with the aim of understanding the phenomenon of statistical multiplexing The novelty of the monograph is the fresh approach and insights provided by a sample path methodology for queueing models that highlights the important ideas of Palm distributions associated with traffic models and their role in performance measures Also presented are recent ideas of large buffer and many sources asymptotics that play an important role in understanding statistical multiplexing In particular the important concept of effective bandwidths as mappings from queueing level phenomena to loss network models is clearly presented along with a detailed presentation of loss network models and accurate approximations for large networks Table of Contents Introduction to Traffic Models and Analysis Queues and Performance Analysis Loss Models for Networks Statistical Multiplexing

Performance Modeling, Stochastic Networks, and Statistical Multiplexing, Second Edition Ravi Mazumdar, 2013-06-18 This monograph presents a concise mathematical approach for modeling and analyzing the performance of communication networks with the aim of introducing an appropriate mathematical framework for modeling and analysis as well as understanding the phenomenon of statistical multiplexing The models techniques and results presented form the core of traffic engineering methods used to design control and allocate resources in communication networks The novelty of the monograph is the fresh approach and insights provided by a sample path methodology for queueing models that highlights the important ideas of Palm distributions associated with traffic models and their role in computing performance measures The monograph also covers stochastic network theory including Markovian networks Recent results on network utility optimization and connections to stochastic insensitivity are discussed Also presented are ideas of large buffer and many sources asymptotics that play an important role in understanding statistical multiplexing In particular the important concept of effective bandwidths as mappings from queueing level phenomena to loss network models is clearly presented along with a detailed discussion of accurate approximations for large networks

Performance Modeling, Stochastic Networks, and Statistical Multiplexing Ravi R. Mazumdar, 2013 Annotation This monograph presents a concise mathematical approach for modeling and analyzing the performance of communication networks with the aim of understanding the phenomenon of statistical multiplexing The novelty of the monograph is the fresh approach and insights provided by a sample path methodology for queueing models that highlights the important ideas of Palm distributions associated with traffic models and their role in performance measures Also presented are recent ideas of large buffer and many sources asymptotics that play an important role in understanding statistical multiplexing In particular the important concept of effective bandwidths as mappings from queueing level phenomena to loss network models is clearly presented along with a detailed presentation of loss network models and accurate approximations for large networks **A**

Primer on Physical-Layer Network Coding Soung Chang Liew, Lu Lu, Shengli Zhang, 2022-05-31 The concept of physical layer network coding PNC was proposed in 2006 for application in wireless networks Since then it has developed into a subfield of communications and networking with a wide following This book is a primer on PNC It is the outcome of a set of lecture notes for a course for beginning graduate students at The Chinese University of Hong Kong The target audience is expected to have some prior background knowledge in communication theory and wireless communications but not working knowledge at the research level Indeed a goal of this book course is to allow the reader to gain a deeper appreciation of the various nuances of wireless communications and networking by focusing on problems arising from the study of PNC Specifically we introduce the tools and techniques needed to solve problems in PNC and many of these tools and techniques are drawn from the more general disciplines of signal processing communications and networking PNC is used as a pivot to learn about the fundamentals of signal processing techniques and wireless communications in general We feel that such a problem centric approach will give the reader a more in depth understanding of these disciplines and allow him her to see first hand how the techniques of these disciplines can be applied to solve real research problems As a primer this book does not cover many advanced materials related to PNC PNC is an active research field and many new results will no doubt be forthcoming in the near future We believe that this book will provide a good contextual framework for the interpretation of these advanced results should the reader decide to probe further into the field of PNC

Advances in Multi-Channel Resource Allocation Bo Ji, Xiaojun Lin, Ness B. Shroff, 2022-05-31 The last decade has seen an unprecedented growth in the demand for wireless services These services are fueled by applications that often require not only high data rates but also very low latency to function as desired However as wireless networks grow and support increasingly large numbers of users these control algorithms must also incur only low complexity in order to be implemented in practice Therefore there is a pressing need to develop wireless control algorithms that can achieve both high throughput and low delay but with low complexity operations While these three performance metrics i e throughput delay and complexity are widely acknowledged as being among the most important for modern wireless networks existing approaches often have had to sacrifice a subset of them in order to optimize the others leading to wireless resource allocation algorithms that either suffer poor performance or are difficult to implement In contrast the recent results presented in this book demonstrate that by cleverly taking advantage of multiple physical or virtual channels one can develop new low complexity algorithms that attain both provably high throughput and provably low delay The book covers both the intra cell and network wide settings In each case after the pitfalls of existing approaches are examined new systematic methodologies are provided to develop algorithms that perform provably well in all three dimensions

Stochastic Network Optimization with Application to Communication and Queueing Systems Michael Neely, 2022-05-31 This text presents a modern theory of analysis control and optimization for dynamic networks Mathematical techniques of Lyapunov drift and Lyapunov optimization are developed and shown to enable

constrained optimization of time averages in general stochastic systems The focus is on communication and queueing systems including wireless networks with time varying channels mobility and randomly arriving traffic A simple drift plus penalty framework is used to optimize time averages such as throughput throughput utility power and distortion Explicit performance delay tradeoffs are provided to illustrate the cost of approaching optimality This theory is also applicable to problems in operations research and economics where energy efficient and profit maximizing decisions must be made without knowing the future Topics in the text include the following Queue stability theory Backpressure max weight and virtual queue methods Primal dual methods for non convex stochastic utility maximization Universal scheduling theory for arbitrary sample paths Approximate and randomized scheduling theory Optimization of renewal systems and Markov decision systems Detailed examples and numerous problem set questions are provided to reinforce the main concepts Table of Contents Introduction Introduction to Queues Dynamic Scheduling Example Optimizing Time Averages Optimizing Functions of Time Averages Approximate Scheduling Optimization of Renewal Systems Conclusions

Network Connectivity Chen Chen, Hanghang Tong, 2022-05-31 Networks naturally appear in many high impact domains ranging from social network analysis to disease dissemination studies to infrastructure system design Within network studies network connectivity plays an important role in a myriad of applications The diversity of application areas has spurred numerous connectivity measures each designed for some specific tasks Depending on the complexity of connectivity measures the computational cost of calculating the connectivity score can vary significantly Moreover the complexity of the connectivity would predominantly affect the hardness of connectivity optimization which is a fundamental problem for network connectivity studies This book presents a thorough study in network connectivity including its concepts computation and optimization Specifically a unified connectivity measure model will be introduced to unveil the commonality among existing connectivity measures For the connectivity computation aspect the authors introduce the connectivity tracking problems and present several effective connectivity inference frameworks under different network settings Taking the connectivity optimization perspective the book analyzes the problem theoretically and introduces an approximation framework to effectively optimize the network connectivity Lastly the book discusses the new research frontiers and directions to explore for network connectivity studies This book is an accessible introduction to the study of connectivity in complex networks It is essential reading for advanced undergraduates Ph D students as well as researchers and practitioners who are interested in graph mining data mining and machine learning

Sharing Network Resources Abhey Parekh, Jean Walrand, 2022-06-01 Resource Allocation lies at the heart of network control In the early days of the Internet the scarcest resource was bandwidth but as the network has evolved to become an essential utility in the lives of billions the nature of the resource allocation problem has changed This book attempts to describe the facets of resource allocation that are most relevant to modern networks It is targeted at graduate students and researchers who have an introductory background in networking and who desire to internalize core

concepts before designing new protocols and applications We start from the fundamental question what problem does network resource allocation solve This leads us in Chapter 1 to examine what it means to satisfy a set of user applications that have different requirements of the network and to problems in Social Choice Theory We find that while capturing these preferences in terms of utility is clean and rigorous there are significant limitations to this choice Chapter 2 focuses on sharing divisible resources such as links and spectrum Both of these resources are somewhat atypical a link is most accurately modeled as a queue in our context but this leads to the analytical intractability of queueing theory and spectrum allocation methods involve dealing with interference a poorly understood phenomenon Chapters 3 and 4 are introductions to two allocation workhorses auctions and matching In these chapters we allow the users to game the system i e to be strategic but don't allow them to collude In Chapter 5 we relax this restriction and focus on collaboration Finally in Chapter 6 we discuss the theoretical yet fundamental issue of stability Here our contribution is mostly on making a mathematically abstruse subdiscipline more accessible without losing too much generality

Wireless Network Pricing Jianwei Huang, Lin Gao, 2013-06-01 Today's wireless communications and networking practices are tightly coupled with economic considerations to the extent that it is almost impossible to make a sound technology choice without understanding the corresponding economic implications This book aims at providing a foundational introduction on how microeconomics and pricing theory in particular can help us to understand and build better wireless networks The book can be used as lecture notes for a course in the field of network economics or a reference book for wireless engineers and applied economists to understand how pricing mechanisms influence the fast growing modern wireless industry This book first covers the basics of wireless communication technologies and microeconomics before going in depth about several pricing models and their wireless applications The pricing models include social optimal pricing monopoly pricing price differentiation oligopoly pricing and network externalities supported by introductory discussions of convex optimization and game theory The wireless applications include wireless video streaming service provider competitions cellular usage based pricing network partial price differentiation wireless spectrum leasing distributed power control and cellular technology upgrade More information related to the book including references slides and videos can be found at ncel.ie.cuhk.edu.hk/content/wireless-network-pricing

Scheduling and Congestion Control for Wireless and Processing Networks Libin Jiang, Jean Walrand, 2022-06-01 In this book we consider the problem of achieving the maximum throughput and utility in a class of networks with resource sharing constraints This is a classical problem of great importance In the context of wireless networks we first propose a fully distributed scheduling algorithm that achieves the maximum throughput Inspired by CSMA Carrier Sense Multiple Access which is widely deployed in today's wireless networks our algorithm is simple asynchronous and easy to implement Second using a novel maximal entropy technique we combine the CSMA scheduling algorithm with congestion control to approach the maximum utility Also we further show that CSMA scheduling is a modular MAC layer algorithm that can work with other

protocols in the transport layer and network layer Third for wireless networks where packet collisions are unavoidable we establish a general analytical model and extend the above algorithms to that case Stochastic Processing Networks SPNs model manufacturing communication and service systems In manufacturing networks for example tasks require parts and resources to produce other parts SPNs are more general than queueing networks and pose novel challenges to throughput optimum scheduling We propose a deficit maximum weight DMW algorithm to achieve throughput optimality and maximize the net utility of the production in SPNs Table of Contents Introduction Overview Scheduling in Wireless Networks Utility Maximization in Wireless Networks Distributed CSMA Scheduling with Collisions Stochastic Processing networks **1997 IEEE International Conference on Communications**, 1997 1997 IEEE International Conference on Communications Institute of Electrical and Electronics Engineers, 1997 **1997 IEEE International Conference on Communications** IEEE Communications Society, 1997 These two volumes offer an international perspective on communication systems presenting advances in telecommunications systems and networks The topics the books discuss include ATM PCS broadband optical switching and signal processing **Conference Record**, 1997 **Mathematical Reviews**, 1999 Special Issue: Performance Modeling of Computer Networks Hermann de Meer, 2009

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