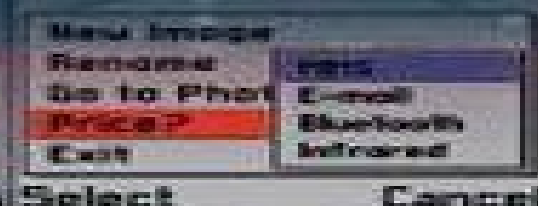


PRICING COMMUNICATION NETWORKS

Economics, Technology and Modelling

COSTAS COURCOUBETIS | RICHARD WEBER



Pricing Communication Networks Economics Technology And Modelling

**Madhusanka Liyanage, Andrei
Gurtov, Mika Ylianttila**



Pricing Communication Networks Economics Technology And Modelling:

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 telecomms engineers working in industry

Network Economics for Next Generation Networks Peter Reichl, Burkhard Stiller, Bruno Tuffin, 2009-05-07 This book constitutes the refereed proceedings of the 6th International Workshop on Internet Charging and QoS Technologies ICQT 2009 held in Aachen Germany in May 2009 collocated with the IFIP Networking 2009 conference The 9 revised full papers presented together with the extended abstract of a keynote paper were carefully reviewed and selected from a total of 26 submissions The papers are organized in topical sections on competition models pricing mechanisms and economics of inter domain traffic Bringing together researchers from the area of technology and economy in both industry and academia to discuss key improvements and to support further progress in these fields ICQT 2009 features combination of micro economic models auctions game theoretic approaches peer to peer and IMS based charging

Performance Models and Risk Management in Communications Systems Nalân Glpınar, Peter G. Harrison, Berc Rustem, 2010-11-02 This volume covers recent developments in the design operation and management of telecommunication and computer network systems in

performance engineering and addresses issues of uncertainty robustness and risk Uncertainty regarding loading and system parameters leads to challenging optimization and robustness issues Stochastic modeling combined with optimization theory ensures the optimum end to end performance of telecommunication or computer network systems In view of the diverse design options possible supporting models have many adjustable parameters and choosing the best set for a particular performance objective is delicate and time consuming An optimization based approach determines the optimal possible allocation for these parameters Researchers and graduate students working at the interface of telecommunications and operations research will benefit from this book Due to the practical approach this book will also serve as a reference tool for scientists and engineers in telecommunication and computer networks who depend upon optimization

The Economics of Telecommunication Services Pramode Verma,Fan Zhang,2020-09-25 This textbook characterizes the economics of telecommunication services from an engineering perspective The authors bring out the fundamental drivers of the industry and characterize networks from a graph theoretic perspective including random small world and scale free networks The authors relate the topology of a telecommunication network using circuit and packet switched architectures to throughput and other performance parameters The pricing model proposed in this book is based on the cost of displaced opportunity as opposed to the cost of the elements of the network engaged in delivering a service The displaced opportunity is characterized by the revenue associated with the service that the network could have alternatively delivered most efficiently using an identical level of resources The book addresses other topics such as regulation in legacy networks and net neutrality Finally the book introduces the application of game theory in a multi vendor multi services competitive marketplace The book aims to bridge the gap between the science of economics as practiced by economists and practice of pricing from a telecommunication engineer s perspective This book is suitable for use by senior undergraduate or graduate students of telecommunication engineering or researchers and practitioners in telecommunication engineering

Management of Multimedia Networks and Services Jordi Dalmau Royo,Go Hasegawa,2005-10-18 We are delighted to present the proceedings of the 8th IFIP IEEE International Conference on Management of Multimedia Networks and Services MMNS 2005 The MMNS 2005 conference was held in Barcelona Spain on October 24 26 2005 As in previous years the conference brought together an international audience of researchers and scientists from industry and academia who are researching and developing state of the art management systems while creating a public venue for results dissemination and intellectual collaboration This year marked a challenging chapter in the advancement of management systems for the wider management research community with the growing complexities of the so called multimedia over Internet the proliferation of alternative wireless networks WLL WiFi and WiMAX and 3G mobile services intelligent and high speed networks scalable multimedia services and the convergence of computing and communications for data voice and video delivery Contributions from the research community met this challenge with 65 paper submissions 33 high quality papers were subsequently selected to form

the MMNS 2005 technical program The diverse topics in this year's program included wireless networking technologies wireless network applications quality of services multimedia Web applications overlay network management and bandwidth management

Grid and Cloud Computing Katarina Stanoevska, Thomas Wozniak, Santi Ristol, 2009-11-04 In today's dynamic business environment IT departments are under permanent pressure to meet two divergent requirements to reduce costs and to support business agility with higher flexibility and responsiveness of the IT infrastructure Grid and Cloud Computing enable a new approach towards IT They enable increased scalability and more efficient use of IT based on virtualization of heterogeneous and distributed IT resources This book provides a thorough understanding of the fundamentals of Grids and Clouds and of how companies can benefit from them A wide array of topics is covered e.g. business models and legal aspects The applicability of Grids and Clouds in companies is illustrated with four cases of real business experiments The experiments illustrate the technical solutions and the organizational and IT governance challenges that arise with the introduction of Grids and Clouds Practical guidelines on how to successfully introduce Grids and Clouds in companies are provided

Internet and Network Economics Xiaotie Deng, Yinyu Ye, 2005-11-25 WINE 2005 the First Workshop on Internet and Network Economics WINE 2005 took place in Hong Kong China December 15-17 2005 The symposium aims to provide a forum for researchers working in Internet and Network Economic algorithms from all over the world The final count of electronic submissions was 372 of which 108 were accepted It consists of the main program of 31 papers of which the submitter email accounts are 10 from edu USA accounts 3 from hk Hong Kong 2 each from il Israel cn China ch Switzerland de Germany jp Japan gr Greece 1 each from hp com sohu com pl Poland fr France ca Canada and in India In addition 77 papers from 20 countries or regions and 6 dot coms were selected for 16 special focus tracks in the areas of Internet and Algorithmic Economics E Commerce Protocols Security Collaboration Reputation and Social Networks Algorithmic Mechanism Financial Computing Auction Algorithms Online Algorithms Collective Rationality Pricing Policies Web Mining Strategies Network Economics Coalition Strategies Internet Protocols Price Sequence Equilibrium We had one best student paper nomination Walrasian Equilibrium Hardness Approximations and Tracktable Instances by Ning Chen and Atri Rudra We would like to thank Andrew Yao for serving the conference as its Chair with inspiring encouragement and far sighted leadership We would like to thank the International Program Committee for spending their valuable time and effort in the review process

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 Stochastic Networks Frank Kelly,Elena Yudovina,2014-02-27 Communication networks underpin our modern world and provide fascinating and challenging examples of large scale stochastic systems Randomness arises in communication systems at many levels for example the initiation and termination times of calls in a telephone network or the statistical structure of the arrival streams of packets at routers in the Internet How can routing flow control and connection acceptance algorithms be designed to work well in uncertain and random environments This compact introduction illustrates how stochastic models can be used to shed light on important issues in the design and control of communication networks It will appeal to readers with a mathematical background wishing to understand this important area of application and to those with an engineering background who want to grasp the underlying mathematical theory Each chapter ends with exercises and suggestions for further reading

Cognitive Radio and Dynamic Spectrum Access Lars Berlemann,Stefan Mangold,2009-07-10 Cognitive Radio for Dynamic Spectrum Access gives a comprehensive overview of the main concepts behind radio spectrum regulation dynamic spectrum access and cognitive radio Spectrum measurements are introduced to illustrate the inefficiencies in today s spectrum usage and the book also discusses enablers for horizontal and vertical spectrum sharing Among others a game theory based approach for spectrum sharing is described and evaluated Institution and standardisation approaches in academic research and industry are highlighted including IEEE SCC41 802 11k n s y and 802 22 which lead towards commercial exploitation of cognitive radio In conclusion this book looks at the initial steps towards the vision of true cognitive radio and the potential impact on telecommunication business Introduces the benefits and challenges of cognitive radio Presents cognitive radio in research and industry and covers implications for operators from the perspective of a telecom operator Examines how cognitive radio techniques will considerably change the wireless communication market

Software Defined Mobile Networks (SDMN) Madhusanka Liyanage,Andrei Gurtov,Mika Ylianttila,2015-06-17 This book describes the concept of a Software Defined Mobile Network SDMN which will impact the network architecture of current LTE 3GPP networks SDN will also open up new opportunities for traffic resource and mobility management as well as impose new challenges on network security Therefore the book addresses the main affected areas such as traffic resource and

mobility management virtualized traffics transportation network management network security and techno economic concepts Moreover a complete introduction to SDN and SDMN concepts Furthermore the reader will be introduced to cutting edge knowledge in areas such as network virtualization as well as SDN concepts relevant to next generation mobile networks Finally by the end of the book the reader will be familiar with the feasibility and opportunities of SDMN concepts and will be able to evaluate the limits of performance and scalability of these new technologies while applying them to mobile broadband and networks

Internet Transport Economics Richard T. B. Ma, 2022-11-02 This book presents Internet transport economics as a new approach to understanding the packet switching paradigm of Internet infrastructure as a global transport system for data packets It is a prescient view of the Internet's evolution into a content centric service platform where the quality of services QoS cannot be guaranteed due to the tens of thousands of autonomous systems that enact business decisions on peering routing and pricing in a way that determines aspects of the Internet ecosystem like network topology latency and throughput of traffic flows and performance of network applications The trafficking issues created in this environment are a critical concern and barrier for user applications that require real time responses such as telesurgery and teleoperation of autonomous vehicles and the book presents the Internet transport economics model as the solution While engineering and business are the prevailing lenses through which the Internet is viewed the book builds its methodological framework around transport Further delving into economics it establishes how the Internet can be understood as providing transport services for data packets whose demand and supply are driven by the QoS metrics of delay and loss which can be regarded as congestion costs that result in equilibrium rates of traffic flows sent by content providers CPs The book goes on to present a stylized model of content provider to access provider CP AP service as well as congestion equilibrium and rate equilibrium solution concepts under the Internet transport economics framework These are used to analyze the problem domains of service differentiation market structure and data pricing Finally it discusses various potential future applications This book will be of interest to graduate students and researchers in areas of computer networking and performance evaluation

Knowledge Processing and Decision Making in Agent-Based Systems Lakhmi C Jain, Ngoc Thanh Nguyen, 2009-01-17 Knowledge processing and decision making in agent based systems constitute the key components of intelligent machines The contributions included in the book are Innovations in Knowledge Processing and Decision Making in Agent Based Systems Towards Real World HTN Planning Agents Mobile Agent Based System for Distributed Software Maintenance Software Agents in New Generation Networks Towards the Automation of Telecom Processes Multi agent Systems and Paraconsistent Knowledge An Agent based Negotiation Platform for Collaborative Decision Making in Construction Supply Chain An Event Driven Algorithm for Agents at the Web A Generic Mobile Agent Framework Toward Ambient Intelligence Developing Actionable Trading Strategies Agent Uncertainty Model and Quantum Mechanics Representation Agent Transportation Layer Adaptation System Software Agents to Enable Service Composition

through Negotiation Advanced Technology Towards Developing Decentralized Autonomous Flexible Manufacturing Systems

Network Control and Optimization Tijani Chahed, Bruno Tuffin, 2007-10-24 This book constitutes the refereed proceedings of the First Euro FGI International Conference on Network Control and Optimization NET COOP 2007 held in Avignon France in June 2007 The 22 revised full papers presented together with nine invited lectures address all current issues in network control and optimization ranging from performance evaluation and optimization of general stochastic networks to more specific targets

Quality of Experience Sebastian Möller, Alexander Raake, 2014-07-08 This pioneering book develops definitions and concepts related to Quality of Experience in the context of multimedia and telecommunications related applications systems and services and applies these to various fields of communication and media technologies The editors bring together numerous key protagonists of the new discipline Quality of Experience and combine the state of the art knowledge in one single volume

Introduction to Logistics Systems Planning and Control Gianpaolo Ghiani, Gilbert Laporte, Roberto Musmanno, 2004-03-05 Logistic systems constitute one of the cornerstones in the design and control of production systems and the modelling of supply chains They are key to a number of industries and courses teaching logistics systems planning and control are becoming more widespread Introduction to Logistics Systems Planning and Control is the first book to present the quantitative methods necessary for logistics systems management at a level suitable for students of engineering computer science and management science It features introductory material on business logistics and covers sales forecasting inventory management warehouse design and management and transport planning and control Presents a balanced treatment of quantitative methods for logistics systems planning organization and control Each topic is illustrated with real examples Features a number of case studies that show how the methods can be applied to complex logistics problems Each chapter features an annotated bibliography of key references Assumes only a basic knowledge of operations research Supported by a Website featuring exercises and teaching material Introduction to Logistics Systems Planning and Control provides an accessible self contained introduction to the subject for researchers practitioners and students of logistics and supply chain management in both academia and industry The book has been developed from courses taught to engineering computer science and management science undergraduate and graduate students

Encyclopedia of Networked and Virtual Organizations Putnik, Goran D., Cruz-Cunha, Maria Manuela, 2008-03-31 Administration r f r e n c e l e c t r o n i q u e i n f o r m a t i q u e

Mobile Peer-to-Peer Computing for Next Generation Distributed Environments: Advancing Conceptual and Algorithmic Applications Seet, Boon-Chong, 2009-05-31 This book is dedicated to the coverage of research issues findings and approaches to Mobile P2P computing from both conceptual and algorithmic perspectives Provided by publisher

eWork and eBusiness in Architecture, Engineering and Construction Attila Dikbas, 2004-08-15 Biannually since 1994 the European Conference on Product and Process Modelling in the Building and Construction Industry has provided a review of research given valuable

future work outlooks and provided a communication platform for future co operative research and development at both European and global levels This volume of special interest t Encyclopedia of Internet Technologies and Applications
Freire, Mario,Pereira, Manuela,2007-10-31 Provides the most thorough examination of Internet technologies and applications for researchers in a variety of related fields For the average Internet consumer as well as for experts in the field of networking and Internet technologies

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