

P2P

Yu-Kwong Ricky Kwok

P2P Networking and Applications John Buford, Heather Yu, Eng Keong Lua, 2009-03-11 Peer-to-Peer (P2P) networks enable users to directly share digital content (such as audio, video, and text files) as well as real-time data (such as telephony traffic) with other users without depending on a central server. Although originally popularized by unlicensed online music services such as Napster, P2P networking has recently emerged as a viable multimillion dollar business model for the distribution of information, telecommunications, and social networking. Written at an accessible level for any reader familiar with fundamental Internet protocols, the book explains the conceptual operations and architecture underlying basic P2P systems using well-known commercial systems as models and also provides the means to improve upon these models with innovations that will better performance, security, and flexibility. Peer-to-Peer Networking and Applications is thus both a valuable starting point and an important reference to those practitioners employed by any of the 200 companies with approximately \$400 million invested in this new and lucrative technology. Uses well-known commercial P2P systems as models, thus demonstrating real-world applicability. Discusses how current research trends in wireless networking, high-def content, DRM, etc. will intersect with P2P, allowing readers to account for future developments in their designs. Provides online access to the Overlay Weaver P2P emulator, an open-source tool that supports a number of peer-to-peer applications with which readers can practice.

Impact of P2P and Free Distribution on Book Sales Brian O'Leary, 2009-05-08 Book publishers have long used free content as part of their marketing and selling efforts, with the vast majority of free content distributed in printed form. Digital distribution of free material, either intentional or via unauthorized availability through peer-to-peer sites and other Web outlets, offers a fast and

expansive connection to consumers, but content can also be copied and disseminated without publishers' control. Some publishers are torn between the efficiencies digital distribution provides and concerns over piracy and print-sale cannibalization. This research report is part of an ongoing effort by O'Reilly Media Inc. and Random House to test assumptions about free distribution, P2P availability and their potential impact on book sales.

Handbook of Peer-to-Peer Networking Xuemin Shen, Heather Yu, John Buford, Mursalin Akon, 2010-03-03 Peer-to-peer networking is a disruptive technology for large scale distributed applications that has recently gained wide interest due to the successes of peer-to-peer (P2P) content sharing, media streaming, and telephony applications. There are a large range of other applications under development or being proposed. The underlying architectures share features such as decentralization, sharing of end system resources, autonomy, virtualization, and self-organization. These features constitute the P2P paradigm. This handbook broadly addresses a large cross-section of current research and state-of-the-art reports on the nature of this paradigm from a large number of experts in the field. Several trends in information and network technology such as increased performance and deployment of broadband networking, wireless networking, and mobile devices are synergistic with and reinforcing the capabilities of the P2P paradigm. There is general expectation in the technical community that P2P networking will continue to be an important tool for networked applications and impact the evolution of the Internet. A large amount of research activity has resulted in a relatively short time, and a growing community of researchers has developed. The Handbook of Peer-to-Peer Networking is dedicated to discussions on P2P networks and their applications. This is a comprehensive book on P2P computing.

Peer-to-peer Dana Moore, John Hebler, 2002 This text demonstrates through clear explanations

how to easily leverage the power of peer-to-peer networks to achieve seamless personal and business communication and transactions.

P2P Techniques for Decentralized Applications Esther Pacitti, Reza Akbarinia, 2012-04-15 As an alternative to traditional client-server systems, Peer-to-Peer (P2P) systems provide major advantages in terms of scalability, autonomy and dynamic behavior of peers, and decentralization of control. Thus, they are well suited for large-scale data sharing in distributed environments. Most of the existing P2P approaches for data sharing rely on either structured networks (e.g., DHTs) for efficient indexing, or unstructured networks for ease of deployment, or some combination. However, these approaches have some limitations, such as lack of freedom for data placement in DHTs, and high latency and high network traffic in unstructured networks. To address these limitations, gossip protocols which are easy to deploy and scale well, can be exploited. In this book, we will give an overview of these different P2P techniques and architectures, discuss their trade-offs, and illustrate their use for decentralizing several large-scale data sharing applications. Table of Contents: P2P Overlays, Query Routing, and Gossiping / Content Distribution in P2P Systems / Recommendation Systems / Top-k Query Processing in P2P Systems

Peer-to-peer Computing Ramesh Subramanian, Brian D. Goodman, 2005-01-01 Peer to Peer Computing: The Evolution of a Disruptive Technology takes a holistic approach to the affects P2P Computing has on a number a disciplines. Some of those areas covered within this book include grid computing, web services, bioinformatics, security, finance and economics, collaboration, and legal issues. Unique in its approach, Peer to Peer Computing includes current articles from academics as well as IT practitioners and consultants from around the world. As a result, the book strikes a balance for many readers. Neither too technical or too managerial, Peer to Peer Computing appeals to the

needs of both researchers and practitioners who are trying to gain a more thorough understanding of current P2P technologies and their emerging ramifications.

2001 P2P Networking Overview Kelly Truelove, Clay Shirky, Lucas Gonze, Rael Dornfest, 2001
There's so much buzz about peer-to-peer these days, it's hard to separate facts from fiction. How do the peer-to-peer companies stack up? Which technologies are credible, and which will shake up our notions of how people use computers? More importantly, how do you see through the hype to the underlying architectures that yield opportunities for creating lasting value? The 2001 P2P Networking Overview from O'Reilly Research is a comprehensive look at peer-to-peer from business and technical perspectives. We describe the state of the industry and offer our opinions about where it's going to go next, with hard data to back us up. What you will find in the report: Company profiles In-depth explanations of the underlying technologies P2P services: present and future Analysis of the hype: what the press gets wrong Estimates of mindshare and community size Our forecasts for the field
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Discovering P2P Michael Miller, 2001-11-30 Peer to Peer: Groundbreaking, Controversial, and Still Growing Not every next big thing has lived up to its promise, but the technologies comprising

peer-to-peer computing are definitely here to stay. Inside, Michael Miller walks you through this still-burgeoning field, showing you where it's come from and where it's headed. In between, he looks closely at P2P's current representatives, including Napster, Aimster, and SETI@home, drawing from their successes and controversies to paint a vivid picture of a diverse set of applications that continue to change the way the world thinks about computing. Delve into every aspect of the P2P revolution: * File-sharing * Collaboration * Communication * Distributed computing * Applications development Explore the state of the art in P2P ... * Gnutella * Napster * Aimster * Instant messaging * SETI@home * Microsoft's .NET initiative ... as well as P2P's origins and future directions.

Peer-to-Peer Computing Quang Hieu Vu, Mihai Lupu, Beng Chin Ooi, 2009-10-20 Peer-to-peer (P2P) technology, or peer computing, is a paradigm that is viewed as a potential technology for redesigning distributed architectures and, consequently, distributed processing. Yet the scale and dynamism that characterize P2P systems demand that we reexamine traditional distributed technologies. A paradigm shift that includes self-reorganization, adaptation and resilience is called for. On the other hand, the increased computational power of such networks opens up completely new applications, such as in digital content sharing, scientific computation, gaming, or collaborative work environments. In this book, Vu, Lupu and Ooi present the technical challenges offered by P2P systems, and the means that have been proposed to address them. They provide a thorough and comprehensive review of recent advances on routing and discovery methods; load balancing and replication techniques; security, accountability and anonymity, as well as trust and reputation schemes; programming models and P2P systems and projects. Besides surveying existing methods and systems, they also compare and evaluate some of the more promising schemes. The need for such a book is evident. It provides a single source for practitioners, researchers and students on the state of the art. For practitioners, this

book explains best practice, guiding selection of appropriate techniques for each application. For researchers, this book provides a foundation for the development of new and more effective methods. For students, it is an overview of the wide range of advanced techniques for realizing effective P2P systems, and it can easily be used as a text for an advanced course on Peer-to-Peer Computing and Technologies, or as a companion text for courses on various subjects, such as distributed systems, and grid and cluster computing.

Benchmarking Peer-to-Peer Systems Wolfgang Effelsberg, Ralf Steinmetz, Thorsten Strufe, 2013-07-10 Peer-to-peer systems are now widely used and have become the focus of attention for many researchers over the past decade. A number of algorithms for decentralized search, content distribution, and media streaming have been developed. This book provides fundamental concepts for the benchmarking of those algorithms in peer-to-peer systems. It also contains a collection of characteristic benchmarking results. The chapters of the book have been organized in three topical sections on: Fundamentals of Benchmarking in P2P Systems; Synthetic Benchmarks for Peer-to-Peer Systems; and Application Benchmarks for Peer-to-Peer Systems. They are preceded by a detailed introduction to the subject.

P2P Collaboration William Van Zyl, 2018

From P2P to Web Services and Grids Ian J. Taylor, Andrew Harrison, 2006-01-17 Covers a comprehensive range of P2P and Grid technologies. Provides a broad overview of the P2P field and how it relates to other technologies, such as Grid Computing, jini, Agent based computing, and web services.

Peer-to-Peer Computing Yu-Kwong Ricky Kwok, 2011-08-17 While people are now using peer-to-peer (P2P) applications for various processes, such as file sharing and video streaming, many

research and engineering issues still need to be tackled in order to further advance P2P technologies. *Peer-to-Peer Computing: Applications, Architecture, Protocols, and Challenges* provides comprehensive theoretical and practical coverage of the major features of contemporary P2P systems and examines the obstacles to further success. Setting the stage for understanding important research issues in P2P systems, the book first introduces various P2P network architectures. It then details the topology control research problem as well as existing technologies for handling topology control issues. The author describes novel and interesting incentive schemes for enticing peers to cooperate and explores recent innovations on trust issues. He also examines security problems in a P2P network. The final chapter addresses the future of the field. Throughout the text, the highly popular P2P IPTV application, PPLive, is used as a case study to illustrate the practical aspects of the concepts covered. Addressing the unique challenges of P2P systems, this book presents practical applications of recent theoretical results in P2P computing. It also stimulates further research on critical issues, including performance and security problems.

Evaluation and Extension of Mathematical Models of P2p Systems Inna

Kotchourova, 2008-12 Master's Thesis from the year 2007 in the subject Computer Science - General, grade: 1,3, Technical University of Darmstadt, 47 entries in the bibliography, language: English, abstract: In this thesis existing mathematical models for P2P systems are presented and evaluated. Thereby the search efficiency in structured and unstructured P2P overlays, the features and restrictions in P2P streaming applications, the service capacity in P2P file sharing systems, content download and replication times in P2P networks and many other issues are investigated. Furthermore the new extended model, possibly combining the most essential characteristics of P2P systems in a consistent way is presented. The characteristics observed in the new model are categorized in three

groups according to the P2P system properties being described: the overlay parameters, the characteristics of participating peers and the resource and service characteristics. Thereafter the objectives, regulated by P2P applications' users and providers, and aspects of underlying P2P systems they are interested in are observed. We consider the P2P applications Skype, Joost and KaZaA, differentiating between the application users and providers, and analyzing the technical view on the P2P system characteristics. A wide variety of existing P2P systems integrating the insights of distributed systems, databases, complexity theory and many other research areas raised inconsistencies and incompatibilities in used terminologies and abstractions. Therefore providing P2P systems interoperability and creating a common model applicable for all P2P systems became a desirable goal. In this thesis the existing P2P layer architectures considering P2P systems as a set of layers ordered according to their increasing degree of abstraction are presented. Furthermore each model layer, its input, output and functionality are described individually.

Reducing Peer-to-peer (P2P) Piracy on University Campuses United States. Congress. House. Committee on the Judiciary. Subcommittee on Courts, the Internet, and Intellectual Property, 2005

ULTIMATE P2P COMPUTING-UNDERST Anirudh Kataria, 2017 Do you want to Understand P2P Computing and SHARING? Do you know what Peer-to-Peer Applications are -and how is their Architecture designed? what exactly is PEER-TO-PEER TRAFFIC, how to monitor it and using the best available tools and how it Impacts ISP Protocols? & Do you want to learn everything about the Styles of P2P and its Frameworks, Centralized Framework, Decentralized Framework, Controlled Decentralized Framework? & Do you want to know about The Advantages & Disadvantages of P2P Networking, P2P Applications? Do you want to implement Direct exchange of resources in P2P? Do you know that you are losing Expensive Bandwidth due to P2P RIGHT NOW at the time you are

reading this by many individuals with malafide intentions? Do you want to know about Grid Computing, Distributed information infrastructure, P2P & Service Providers? How can you effectively understand P2P Network, P2P and its Unknown dangers its Impact on ISP's AND what ISP Strategies are currently being used? Do you want to know highly popular Tools for monitoring P2P traffic? What are Methods to control P2P bandwidth consumption and the difficult security problems in a P2P network? but how? The Answer is this amazing book Ultimate P2P Computing-Understanding P2P SHARING, Peer-to-Peer Applications-Architecture PEER-TO-PEER TRAFFIC, ITS IMPACT ON ISP Protocols Its Challenges and Solutions. (Anirudh Kataria & Associates Computational Science) Published By Blackryders LLC Manhattan NY. This book will teach you how to effectively and safely deal with the Complicated nature of P2P, and it will also provide you a simple solution with action & to defend yourself with easiest techniques possible and provide you with the best tools to help you understand P2P, Peer-to-Peer Applications- PEER-TO-PEER TRAFFIC This book will explore and expose the hidden techniques used by ISP'S hackers and secret government officials & and their methods by which they successfully and very easily safeguards themselves and optimize their BANDWIDTH with the best available tools in the market to monitor and control. In this Book you will learn about: - An introduction to P2P What are & PEER-TO-PEER Networks, Peer-to-Peer Applications are -and how is their Architecture designed, How P2P Networks were invented, where and how people use the PEER-TO-PEER TRAFFIC, how can you monitor it and what are the best available tools for ISP to control the bandwidth how does these Impact ISP Protocols. What are the main Advantages & Disadvantages of P2P Networking What are P2P Applications How PEER-TO-PEER seeks to lessen the obstacles by different Styles of P2P and its Frameworks PEER-TO-PEER Centralized Framework,& PEER-TO-PEER Decentralized Framework,& PEER-TO-PEER Controlled Decentralized Framework & Easy Picture

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Usage of Peer-to-peer Networks for Music File-sharing: “Piracy Or Revolution?” Martin Strang,2008 Essay from the year 2005 in the subject Communications - Multimedia, Internet, New Technologies, grade: High Distinction, Macquarie University (Centre for International Communication), course: New Media, 22 entries in the bibliography, language: English, abstract: This essay examines the usage of peer-to-peer (P2P) networks for music file-sharing and intends to analyse this usage in the context of current copyright policy. This will be achieved by addressing the following issues. Firstly, the history and principle of P2P networks will be outlined. Secondly, it will be analysed whether P2P file-sharing can be seen as an act of 'theft'. Thirdly, the paper will examine how P2P networks are used and what cultural significance they represent. Fourthly, the future of P2P networks will be debated and finally the results of this paper will be summarised and discussed.

Mobile Peer to Peer (P2P) Frank H. P. Fitzek,Hassan Charaf,2009-06-15 Explore the potential of mobile P2P networks Mobile Peer to Peer (P2P): A Tutorial Guide discusses the potential of wireless communication among mobile devices forming mobile peer to peer networks. This book provides the basic programming skills required to set up wireless communication links between mobile devices, offering a guide to the development process of mobile peer to peer networks. Divided into three sections, Part I briefly introduces the basics of wireless technologies, mobile architectures, and communication protocols. Detailed descriptions of Bluetooth, IEEE802.11, and cellular communication

link are given and applied to potential communication architectures. Part II focuses on programming for individual wireless technologies, and gives an understanding of the programming environment for individual wireless technologies. In addition, Part III provides advanced examples for mobile peer to peer networks. Introduces the basics of short-range/wireless technologies (such as Bluetooth and IEEE 802.11 Wireless LAN), mobile architectures, and communication protocols Explains the basic programming environment and the basic wireless communication technologies such as Bluetooth, WiFi (IEEE802.11), and cellular communication examples Discusses the advancements in meshed networks, mobile social networks and cooperative networks Provides detailed examples of mobile peer to peer communication including, social mobile networking, cooperative wireless networking, network coding, and mobile gaming Includes an accompanying website containing programming examples as source code Mobile Peer to Peer (P2P): A Tutorial Guide is an invaluable reference for advanced students on wireless/mobile communications courses, and researchers in various areas of mobile communications (mashups, social mobile networks, network coding, etc.) Undergraduate students and practitioners wishing to learn how to build mobile peer to peer networks will also find this book of interest.

Self-* and P2P for Network Management Clarissa Cassales Marquezan, Lisandro Zambenedetti Granville, 2012-07-10 The network management community has been pushed towards the design of alternative management approaches able to support heterogeneity, scalability, reliability, and minor human intervention. The employment of self-* properties and Peer-To-Peer (P2P) are seen as promising alternatives, able to provide the sophisticated solutions required. Despite being developed in parallel, and with minor direct connections perceived between them, self-* properties and P2P can be used concurrently. In Self-* and P2P for Network Management: Design Principles and

Case Studies, the authors explore the issues behind the joint use of self-* properties and P2P, and present: a survey relating autonomic computing and self-* properties, P2P, and network and service management; the design of solutions that explore parallel and cooperative behavior of management peers; the change in angle of network management solution development from APIs, protocols, architectures, and frameworks to the design of management algorithms.

Databases, Information Systems, and Peer-to-Peer Computing Karl Aberer, Vana Kalogeraki, Manolis Koubarakis, 2004-03-04 Peer-to-peer (P2P) computing is currently attracting enormous media attention, spurred by the popularity of file sharing systems such as Napster, Gnutella and Morpheus. In P2P systems a very large number of autonomous computing nodes (the peers) pool together their resources and rely on each other for data and services. The wealth of business opportunities promised by P2P networks has generated much industrial interest recently, and has resulted in the creation of various industrial projects, startup companies, and special interest groups. Researchers from distributed computing, networks, agents and databases have also become excited about the P2P vision, and papers tackling open problems in this area have started appearing in high-quality conferences and workshops. Much of the recent research on P2P systems seems to be carried out by research groups with a primary interest in distributed computation and networks. This workshop concentrated on the impact that current database research can have on P2P computing and vice versa. Although researchers in distributed data structures and databases have been working on related issues for a long time, the developed techniques are simply not adequate for the new paradigm.

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Table of Contents P2P

- | | | |
|--|--|---|
| <ul style="list-style-type: none">1. Understanding the eBook P2P<ul style="list-style-type: none">◦ The Rise of Digital Reading P2P◦ Advantages of eBooks Over Traditional Books2. Identifying P2P<ul style="list-style-type: none">◦ Exploring Different Genres◦ Considering Fiction | <ul style="list-style-type: none">vs. Non-Fiction<ul style="list-style-type: none">◦ Determining Your Reading Goals3. Choosing the Right eBook Platform<ul style="list-style-type: none">◦ Popular eBook Platforms◦ Features to Look for in an P2P◦ User-Friendly Interface4. Exploring eBook Recommendations from P2P | <ul style="list-style-type: none">◦ Personalized Recommendations◦ P2P User Reviews and Ratings◦ P2P and Bestseller Lists 5. Accessing P2P Free and Paid eBooks<ul style="list-style-type: none">◦ P2P Public Domain eBooks◦ P2P eBook Subscription Services◦ P2P Budget-Friendly |
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|---|---|---|

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