Yu-Kwong Ricky Kwok

#### Efficiency and Stability of Peer-to-peer File Sharing Systems Wei Qian Sang, 2007

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.

Peer-to-peer File Sharing and Secondary Liability in Copyright Law Alain Strowel, 2009-01-01 This

is a book that has a lot to offer. Many of its readers will benefit from the first chapters which comprehensively analyse the case law and put it in context, whilst others will benefit more from the more conceptual chapters and the criticism of certain points and suggestions for a way forward contained in them. Paul L.C. Torremans, European Intellectual Property Review This timely volume offers a comprehensive review of case law, in various jurisdictions, on secondary liability for copyright infringement, particularly P2P file sharing and online infringements. Moreover, the book includes forward-looking contributions of prominent academics from the USA and the EU, which provide original perspectives on the future shape of online copyright law, looking at questions such as whether it could or even should evolve towards a compensation system. By combining these different avenues, the book will be of particular interest to practitioners, academics, researchers and legal scholars involved in the field of copyright law.

*Peer-to-Peer* Andy Oram,2001-02-26 The term peer-to-peer has come to be applied to networks that expect end users to contribute their own files, computing time, or other resources to some shared

project. Even more interesting than the systems' technical underpinnings are their socially disruptive potential: in various ways they return content, choice, and control to ordinary users. While this book is mostly about the technical promise of peer-to-peer, we also talk about its exciting social promise. Communities have been forming on the Internet for a long time, but they have been limited by the flat interactive gualities of email and Network newsgroups. People can exchange recommendations and ideas over these media, but have great difficulty commenting on each other's postings, structuring information, performing searches, or creating summaries. If tools provided ways to organize information intelligently, and if each person could serve up his or her own data and retrieve others' data, the possibilities for collaboration would take off. Peer-to-peer technologies along with metadata could enhance almost any group of people who share an interest--technical, cultural, political, medical, you name it. This book presents the goals that drive the developers of the best-known peer-to-peer systems, the problems they've faced, and the technical solutions they've found. Learn here the essentials of peer-to-peer from leaders of the field: Nelson Minar and Marc Hedlund of

target=new>Popular Power, on a history of peer-to-peer Clay Shirky of acceleratorgroup, on where peer-to-peer is likely to be headed Tim O'Reilly of O'Reilly & Associates, on redefining the public's perceptions Dan Bricklin, cocreator of Visicalc, on harvesting information from end-users David Anderson of SETI@home, on how SETI@Home created the world's largest computer Jeremie Miller of Jabber, on the Internet as a collection of conversations Gene Kan of Gnutella and GoneSilent.com, on lessons from Gnutella for peer-to-peer technologies Adam Langley of Freenet, on Freenet's present and upcoming architecture Alan Brown of Red Rover, on a deliberately low-tech content distribution system Marc Waldman, Lorrie Cranor, and Avi Rubin of AT&T Labs, on the Publius project and trust in distributed systems Roger Dingledine, Michael J. Freedman, andDavid Molnar of Free Haven, on resource allocation and accountability in distributed systems Rael Dornfest of O'Reilly Network and Dan Brickley of ILRT/RDF Web, on metadata Theodore Hong of Freenet, on performance Richard Lethin of Reputation Technologies, on how reputation can be built online Jon Udell of BYTE and Nimisha Asthagiri and Walter Tuvell of Groove Networks, on security Brandon Wiley of Freenet, on

gateways between peer-to-peer systems You'll find information on the latest and greatest systems as well as upcoming efforts in this book.

Peer-to-Peer File-Sharing Technology: Consumer Protection and Competition Issues: A Federal Trade Commission Staff Workshop Report (June 2005),

Online File Sharing Jonas Andersson Schwarz,2013-09-05 It is apparent that file sharing on the Internet has become an emerging norm of media consumption—especially among young people. This book provides a critical perspective on this phenomenon, exploring issues related to file sharing, downloading, peer-to-peer networks, piracy, and (not least) policy issues regarding these practices. Andersson Schwartz critically engages with the justificatory discourses of the actual file-sharers, taking Sweden as a geographic focus. By focusing on the example of Sweden—home to both The Pirate Bay and Spotify—he provides a unique insight into a mentality that drives both innovation and deviance and accommodates sharing in both its unadulterated and its compliant, business-friendly forms.

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.

Inadvertent File Sharing Over Peer-to-peer Networks United States. Congress. House. Committee on Oversight and Government Reform,2008

*Peer-to-Peer Systems and Applications* Ralf Steinmetz,2005-09-29 Starting with Napster and Gnutella, peer-to-peer systems became an integrated part of the Internet fabric attracting millions of users. This book provides an introduction to the field. It draws together prerequisites from various fields, presents techniques and methodologies, and gives an overview on the applications of the peer-to-peer paradigm.

Inadvertent File Sharing Over Peer-to-peer Networks United States. Congress. House. Committee on Oversight and Government Reform,2009

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.

Peer to Peer and the Music Industry Matthew David.2010 Have the music and movie industries lost the battle to criminalize downloading? This penetrating and informative book provides readers with the perfect systematic critical guide to the file-sharing phenomenon. Combining inter-disciplinary resources from sociology, history, media and communication studies and cultural studies, David unpacks the economics, psychology and philosophy of file-sharing. The book carefully situates the reader in a field of relevant approaches including Network Society Theory, Post-structuralism and ethnographic research. It uses this to launch into a fascinating enguiry into: \* the rise of file-sharing, \* the challenge to intellectual property law posed by new technologies of communication, \* the social psychology of cyber crime \* and the response of the mass media and multi-national corporations. The book concludes with a balanced, eye-opening assessment of alternative cultural modes of participation and their relationship to cultural capitalism. This is a landmark work in the sociology of popular culture and cultural criminology. It fuses a deep knowledge of the music industry and the new technologies of

mass communication with a powerful perspective on how multinational corporations seek to monopolize markets, how international and state agencies defend property, while a global multitude undermine and/or reinvent both.

### Peer-to-peer File Sharing: a Guide for Business ,2010

Encyclopedia of Multimedia Borko Furht,2008-11-26 This second edition provides easy access to important concepts, issues and technology trends in the field of multimedia technologies, systems, techniques, and applications. Over 1,100 heavily-illustrated pages – including 80 new entries – present concise overviews of all aspects of software, systems, web tools and hardware that enable video, audio and developing media to be shared and delivered electronically.

<u>Understanding Online Piracy</u> Nathan Fisk,2009-06-08 The complex world of online piracy and peer-to-peer file sharing is skillfully condensed into an easy-to-understand guide that provides insight into the criminal justice approach to illegal file sharing, while offering guidance to parents and students who have concerns about potential legal action in response to file-sharing activities. While the actual impact of digital piracy is nearly impossible to precisely calculate, the threat of financial damage from illegal peer-to-peer (P2P) file sharing to the world's highest-grossing entertainment firms (and even entire industries!) has garnered attention from government, industry, and academic leaders and criminal justice professionals. Oftentimes, those providing access to computers and file sharing capabilities-parents, schools, libraries-don't know about or understand these activities and, therefore, put themselves and their families at risk for criminal and civil prosecution. This work describes the technological, legal, social, and ethical facets of illegal peer-to-peer file sharing. Geared toward parents. teachers, librarians, students, and any other computer user engaged in file sharing, this book will help readers to understand all forms of traditional and digital copyright violations of protected music, movies, and software. To date over 18,000 P2P users have been sued by the Recording Industry Association of America (RIAA). Most of these users have been college students and parents of high-school students. While word of these law suits are spreading, and many parents fear that their children may be using a family computer to illegally download and share copyrighted works, few

supervising adults have the technical knowledge needed to determine whether and to what extent pirating may be occurring via a computer and Internet connection they are legally responsible for. Additionally, while P2P networks are filled with millions of users with billions of copyrighted files, few users understand the ways in which they are illegally using computers and other mobile electronic devices to download protected content. While describing both technical and social issues, this book primarily focuses on the social aspects of illegal file sharing, and provides technical concepts at a general level. Fisk skillfully condenses the complex nature of file sharing systems into an easy-tounderstand guide, provides insight into the criminal justice approach to illegal file sharing, and offers guidance to parents and students who have concerns about potential legal action in response to file sharing activities.

Peer-To-Peer File Sharing. Music and Copyright in the Internet Age Sebastian Just,2023-02-16 Seminar paper from the year 2020 in the subject Communications - Multimedia, Internet, New Technologies, grade: 2,3, Humboldt-University of Berlin (Institut für Musikwissenschaft und Medienwissenschaft), language: English, abstract: The objective of this paper is to take a closer look at the development and behavior of Peer-to-Peer based file sharing networks while especially considering intellectual property law to assess the impact this disruptive technology had on the music industry. To do that this paper will first look at the shift from analogue to digital audio, which entailed significant changes for both the music industry and the consumer. Then it will focus on the first real Peer-to-Peer file sharing network Napster, especially on why it came into being, how it worked and to what extend it interfered with copyright law. Afterwards it takes the period after Napster's shutdown in 2001 in consideration, in which various new Peer-to-Peer networks even more copyright-resistant emerged. It will be examined how these networks functioned compared to their predecessor, how the music industry and the state tried to take on these "digital enemies" and how Peer-to-Peer affected the music business. Eventually we will take a look at how the industry managed to adapt to the internet, treating it as a profitable platform rather than a dystopian technology. On the 3rd of April 1993, the World Wide Web was made available to the public. By connecting people all over the world, this technological milestone initiated drastic changes to how we are able to consume visual and acoustical entertainment. In 1999, the first ever file sharing network called Napster launched and illicitly enabled users to exchange copyrighted music for free. This was accomplished by using a peer-to-peer system, which takes advantage of the vast availability of the internet and the resultant high number of "peers". Users register to the network and declare which files from their computer they are willing to share, enabling others to download the files directly from them rather than through a central sever. This sort of file transfer posed a challenge for the music industry, as their music was made publicly available with no one paying for it. In addition, Peer-to-Peer systems conflicted with the idea of intellectual property, which grants an author certain rights over his or her work in form of a copyright.

Efficient File Sharing in P2P Network with TTL Scoped Based Searching Rajwinder Singh,2012 This Book focuses on Peer-to-peer technology, that is used for the self-organizing network so that no central service provider is needed. Research challenges include efficiency and scalability aspects and the support for location based search. We study a model for peer-to-peer file sharing. The goal is to distribute a file from a peer to multiple peers. This report describes the implementation of a bandwidthefficient and easy to deploy TTL Scoped based search algorithm for Peer-to-Peer networks with fast file downloading feature. To implement the file sharing system, a Sockets-based messaging framework was implemented in Java, using command line interfaces. The file system enables distributed peers to present a virtual single directory to users while sharing file load across different platforms. We assume the upload/download capacity of each peer is the only bottleneck. Min-max finish time and optimal average finish time of the model are studied. Extensive results show that TTL Scoped search algorithm achieves high success rates, increased number of discovered objects, very low bandwidth consumption and to changing topologies.

*Peer-to-Peer with VB .NET* Matthew MacDonald,2008-01-01 The author explores how peer-to-peer design ideas can be integrated into existing .NET applications.

Steal this File Sharing Book Wally Wang,2004 Steal This File Sharing Book tackles the thorny issue of file sharing networks such as Kazaa, Morpheus, and Usenet. It explains how these networks

work and how to use them. It exposes the dangers of using file sharing networks--including viruses, spyware, and lawsuits--and tells how to avoid them. In addition to covering how people use file sharing networks to share everything from music and video files to books and pornography, it also reveals how people use them to share secrets and censored information banned by their governments. Includes coverage of the ongoing battle between the software, video, and music pirates and the industries that are trying to stop them.

Inadvertent File Sharing Over Peer-to-peer Networks United States. Congress. House. Committee on Oversight and Government Reform,2008

Delve into the emotional tapestry woven by Crafted by in Experience File Sharingpeer To Peer. This ebook, available for download in a PDF format (\*), is more than just words on a page; it is a journey of connection and profound emotion. Immerse yourself in narratives that tug at your heartstrings. Download now to experience the pulse of each page and let your emotions run wild.

		The enalingpeer re reer
Table of Contents File	Sharingpeer To Peer	Sharingpeer To
Sharingpeer To Peer	<ul> <li>Exploring Different</li> </ul>	Peer
	Genres	• User-Friendly
1. Understanding the eBook	• Considering Fiction	Interface
File Sharingpeer To Peer	vs. Non-Fiction	4. Exploring eBook
<ul> <li>The Rise of Digital</li> </ul>	• Determining Your	Recommendations from
Reading File	Reading Goals	File Sharingpeer To Peer
Sharingpeer To	3. Choosing the Right eBook	• Personalized
Peer	Platform	Recommendations
<ul> <li>Advantages of</li> </ul>	<ul> <li>Popular eBook</li> </ul>	• File Sharingpeer To
eBooks Over	Platforms	Peer User Reviews
Traditional Books	$\circ$ Features to Look for	and Ratings
2. Identifying File	in an File	• File Sharingpeer To

		51
Peer and Bestseller	Peer Budget-	7. Enhancing Your Reading
Lists	Friendly Options	Experience
5. Accessing File	6. Navigating File	<ul> <li>Adjustable Fonts</li> </ul>
Sharingpeer To Peer Free	Sharingpeer To Peer	and Text Sizes of
and Paid eBooks	eBook Formats	File Sharingpeer To
• File Sharingpeer To	∘ ePub, PDF, MOBI,	Peer
Peer Public Domain	and More	<ul> <li>Highlighting and</li> </ul>
eBooks	<ul> <li>File Sharingpeer To</li> </ul>	Note-Taking File
• File Sharingpeer To	Peer Compatibility	Sharingpeer To
Peer eBook	with Devices	Peer
Subscription	• File Sharingpeer To	<ul> <li>Interactive Elements</li> </ul>
Services	Peer Enhanced	File Sharingpeer To
• File Sharingpeer To	eBook Features	Peer

		i ne enemigerer re i eer
8. Staying Engaged with File	Sharingpeer To Peer	<ul> <li>Managing Screen</li> </ul>
Sharingpeer To Peer	<ul> <li>Benefits of a Digital</li> </ul>	Time
• Joining Online	Library	11. Cultivating a Reading
Reading	<ul> <li>Creating a Diverse</li> </ul>	Routine File Sharingpeer
Communities	Reading Collection	To Peer
<ul> <li>Participating in</li> </ul>	File Sharingpeer To	<ul> <li>Setting Reading</li> </ul>
Virtual Book Clubs	Peer	Goals File
• Following Authors	10. Overcoming Reading	Sharingpeer To
and Publishers File	Challenges	Peer
Sharingpeer To	<ul> <li>Dealing with Digital</li> </ul>	<ul> <li>Carving Out</li> </ul>
Peer	Eye Strain	Dedicated Reading
9. Balancing eBooks and	• Minimizing	Time
Physical Books File	Distractions	12. Sourcing Reliable

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