

# Peer To Peer Communication

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 Peer-to-Peer

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## RAMOS AGUILAR

### Peer-to-Peer Computing GRIN Verlag

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.

### Teaching through Peer Interaction Springer

This thesis is concerned with the study of multi-party communication protocols in the asynchronous message-passing peer-to-peer model. We introduce two new information measures, the Public Information Complexity (PIC) and the Multi-party Information Complexity (MIC), study their properties and how they are related to other fundamental quantities in distributed computing such as communication complexity and randomness complexity. We then use these two measures to study the parity function and the disjointness function.

### From P2P to Web Services and Grids SAGE Publications

This book was born out of the idea that domain-specific knowledge has two major dimensions, since, on the one hand, peer-to-peer communication is primarily intended to further research within specific disciplines, while, on the other, domain-external, asymmetric communication of 'filtered' knowledge caters to different types of lay-audiences. Collectively, the chapters in the volume take the reader on a journey through knowledge communication and knowledge (re)presentation strategies that are able to successfully disseminate and communicate. The domains under scrutiny are medicine and health, corporate communication, cultural heritage and tourism. A number of issues are addressed at the interface of corpus linguistics, genre studies and multimodal analysis. The variety of questions posed and methods used to explore corpus data will contribute to further debate among scholars in applied linguistics, sociolinguistics, multimodality, media studies and computer-mediated communication.

### Real-Time Communication with WebRTC "O'Reilly Media, Inc."

Clans, cliques, clubs, or classmates: Students of group communication should be encouraged to think critically about concepts to the groups that matter to them most—peers. Peer Groups is the first textbook to explore group communication dynamics with this vital group. Drawing on a combination of traditional and new theories, Dr. SunWolf uses an inviting writing style, shares the words and provocative thinking of real world group members, and draws on research from social psychology, communication, and group dynamics. This innovative book offers suggestions for critical thinking and new behaviors in students' own peer groups and will inspire further exploration of small group dynamics.

### Marketing Scheme on Peer-to-Peer (P2P) Communication Software Anticipating 4G

Springer Science & Business Media

Mobile Peer to Peer (P2P) John Wiley & Sons

A Communication Library for Peer-to-peer Communication in Message-driven Programs Springer Science & Business Media

Peer-to-Peer (P2P) systems have been invented, deployed and researched for more than ten years and went far beyond the simple file sharing applications. In P2P networks, participants organize themselves in an overlay network that abstracts from the topological characteristics of the underlying physical network. Aim of these systems is the distribution of some kind of resources like contents, storage, or CPU cycles. Users, therefore, play an active role so that they can be considered as client and server at the same time, for the particular service that is provided through the P2P paradigm. In this dissertation thesis I will focus peer-to-peer streaming systems. This work starts with the state of art of p2p streaming systems and then presents fundamental delay bounds for chunk based p2p streaming. Then it introduces a practical algorithm called O-Streamline that is

based on those theoretical results together with its performance analysis by means of simulations.

### Journal on Data Semantics XV Springer Science & Business Media

Distributed message-driven applications, such as distributed simulation, in tightly coupled local area networks often exhibit peer-to-peer communication patterns. However, high-performance communication research during the past decade have been focused on reducing the software overheads in client-server communication. Another line of research has been concentrated on achieving the performance potential of commodity systems. This thesis proposes to implement a communication library based on the MPICH, TCP, UDP, and MVICH commodity protocols. A reliable protocol for peer-to-peer communication is implemented and used in conjunction with the unreliable UDP protocol. Synthetic workloads that exhibit both peer-to-peer and client-server communication patterns are studied and performance results of using the communication library for these workloads are presented. The experiments performed in this thesis show that the implemented UDP based communication layer executing in user space outperforms the VIA based MVICH communication layer as well as MPICH and TCP for a number of synthetic workloads.

### Leveraging Peer-to-Peer Technology for Enterprise Communication Mobile Peer to Peer (P2P)

P2PSIP (Peer-to-Peer Session Initiation Protocol) is a protocol developed by the IETF (Internet Engineering Task Force) for the establishment, completion and modification of communication sessions that emerges as a complement to SIP (Session Initiation Protocol) in environments where the original SIP protocol may fail for technical, financial, security, or social reasons. In order to do so, P2PSIP systems replace all the architecture of servers of the original SIP systems used for the registration and location of users, by a structured P2P network that distributes these functions among all the user agents that are part of the system. This new architecture, as with any emerging system, presents a completely new security problematic which analysis, subject of this thesis, is of crucial importance for its secure development and future standardization. Starting with a study of the state of the art in network security and continuing with more specific systems such as SIP and P2P, we identify the most important security services within the architecture of a P2PSIP communication system: access control, bootstrap, routing, storage and communication. Once the security services have been identified, we conduct an analysis of the attacks that can affect each of them, as well as a study of the existing countermeasures that can be used to prevent or mitigate these attacks. Based on the presented attacks and the weaknesses found in the existing measures to prevent them, we design specific solutions to improve the security of P2PSIP communication systems. To this end, we focus on the service that stands as the cornerstone of P2PSIP communication systems: security: access control. Among the new designed solutions stand out: a certification model based on the segregation of the identity of users and nodes, a model for secure access control for on-the-fly P2PSIP systems and an authorization framework for P2PSIP systems built on the recently published Internet Attribute Certificate Profile for Authorization. Finally, based on the existing measures and the new solutions designed, we define a set of security recommendations that should be considered for the design, implementation and maintenance of P2PSIP communication systems.

### Peer Groups Routledge

The LNCS Journal on Data Semantics is devoted to the presentation of notable work that, in one way or another, addresses research and development on issues related to data semantics. The scope of the journal ranges from theories supporting the formal definition of semantic content to innovative domain-specific applications of semantic knowledge. The journal addresses researchers and advanced practitioners working on the semantic web, interoperability, mobile information services, data warehousing, knowledge representation and reasoning, conceptual database modeling, ontologies, and artificial intelligence. Volume XV results from a rigorous selection among 25 full papers received in response to two calls for contributions issued in 2009 and 2010. In addition, this volume contains a special report on the Ontology Alignment Evaluation Initiative, an event that has

been held once a year in the last five years and has attracted considerable attention from the ontology community. This is the last LNCS transactions volume of the Journal on Data Semantics; the next issue will appear as a regular Springer Journal, published quarterly starting from 2012.

#### **Benchmarking Peer-to-Peer Systems** Packt Publishing Ltd

The book will follow a step-by-step tutorial approach to construct an application that allows video conferencing and calls between two browsers and a system for sharing files among a group. This book is ideal for developers new to the WebRTC standards who are interested in adding sensor-driven, real-time, peer-to-peer communication to their web applications. You will only need basic experience with HTML and JavaScript.

*Usage of Peer-to-peer Networks for Music File-sharing: "Piracy Or Revolution?"* Springer Science & Business Media

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 Computing for Next Generation Distributed Environments: Advancing Conceptual and Algorithmic Applications* John Wiley & Sons

Communications of ACM Internet Research IEEE Transactions on Parallel and Distributed Systems Parallel Computing IEEE Transactions on Computers ACM Transactions on Computer Systems

*Peer-to-Peer Computing* Springer Science & Business Media

"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.

*Information Theory for Multi-party Peer-to-peer Communication Protocols* Springer

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.

IGI Global

Peer-to-Peer (P2P) networks allow individuals to share digital content files in real time. They facilitate communication and promote community without hierarchy or strict control. This book applies economic principles to analyze and understand the P2P phenomenon. It also provides numerous contemporary examples from the US and around the world to shed light on the implications of P2P as a mass medium, considering such issues as pricing, licensing, security, and regulation.

*The Legal Implications of Peer to Peer Communication* "O'Reilly Media, Inc."

In this paper we discuss how peer-to-peer technologies can be used as enterprise communication tool. Various vendors have introduced enterprise grade products based on peer-to-peer technologies. The main technical requirements for these products are security, centralized control mechanisms for network and PC resources and reliability of performance. A survey of vendors and experience with large-scale implementation shows that the enterprise grade peer-to-peer communication products meet the enterprise security, reliability and network control requirements. In terms of business justification the products provide infrastructure cost avoidance, allow central communication control by business administrators, allow sending large communication items such as high quality videos and provide tracking. The WAN segment of many enterprises faces capacity

issues and peer-to-peer communication allows as much as 90% of the network traffic load to be transferred to LANs thus avoiding expensive WAN upgrades. The centralized content & user administration and detailed usage tracking is attractive to business administrators; it empowers them to distribute and track customized rich media communication items anywhere. We will look into the various ways in which peer-to-peer communication solutions are implemented and discuss best practices for managing the lifecycle of enterprise communication.

**Peer Groups** Cambridge Scholars Publishing

Deliver rich audio and video real-time communication and peer-to-peer data exchange right in the browser, without the need for proprietary plug-ins. This concise hands-on guide shows you how to use the emerging Web Real-Time Communication (WebRTC) technology to build a browser-to-browser application, piece by piece. The authors' learn-by-example approach is perfect for web programmers looking to understand real-time communication, and telecommunications architects unfamiliar with HTML5 and JavaScript-based client-server web programming. You'll use a ten-step recipe to create a complete WebRTC system, with exercises that you can apply to your own projects. Tour the WebRTC development cycle and trapezoid architectural model Understand how and why VoIP is shifting from standalone functionality to a browser component Use mechanisms that let client-side web apps interact with browsers through the WebRTC API Transfer streaming data between browser peers with the RTCPeerConnection API Create a signaling channel between peers for setting up a WebRTC session Put everything together to create a basic WebRTC system from scratch Learn about conferencing, authorization, and other advanced WebRTC features

**Enterprise Security Through Peer-to-peer Communication** Springer Science & Business Media

Online peer support has become popular in the U.S. and around the world, transforming how and to whom Internet users can disclose their mental health challenges. While the psychology literature outlines a number of mechanisms underlying therapeutic benefits of discussing personal concerns (e.g., processing experiences, exchanging social support, challenging stigma), limited research has assessed how online peer support environments best activate these processes. In this dissertation, I examine roles played by specific website design features, or affordances, in stimulating therapeutic processes of peer communication, reporting results from studies of three forums serving populations with (1) depression, (2) substance use disorders, and (3) varied mental health concerns. Results suggested that affordances relating to group size, interactivity, identifiability, and training shape peer-to-peer communication in ways that can affect wellbeing. Results from Study 1 showed that larger perceived audiences helped writers improve their moods. Furthermore, when audiences were not expected to respond, larger audiences also helped writers appreciate positive aspects of their depression identity. Results from Study 2 showed that, in contrast to predictions from the online disinhibition paradigm, visual identifiability had no relationship to self-disclosure, and was also related positively to self-acceptance and negatively to substance use. Finally, results from Study 3 suggested benefits of training, with "active listening" fidelity predicting less vicarious distress and loneliness among peer helpers. Size, identifiability, training, and other design elements can be adjusted in online peer support environments to potentially foster more fruitful self-disclosure and support exchange. These findings demonstrate the utility of an affordance approach to optimizing online peer-to-peer communication environments, but suggest the need for additional research clarifying specific mechanisms by which online self-expression brings benefits.

*Peer to Peer Multimedia Communication* LAP Lambert Academic Publishing

In recent times, the growth of mobile devices (especially smartphones) is phenomenal. These devices support Bluetooth and Wifi connectivity. Further, they are equipped with good computing power and memory. Because of this, an entirely new network paradigm has emerged in which encounters between these mobile devices can be exploited for opportunistic data transfer without using any fixed network infrastructure[5]. This opportunistic network paradigm is called Pocket Switched Network (PSN) as we carry smartphones in our pockets. Message broadcast, news spread, traffic updates, microblogging and peer-to-peer file sharing are some of the applications which can run on such type of network. Further, it can significantly offload infrastructure based networks such as cellular network and infrastructure based Wifi network and reduce data cost for users considerably[6]. As these devices are carried by humans, their encounter patterns depend on human mobility patterns. Thus, knowledge of human movement behaviour and social structure can be exploited for efficient peer-to-peer communication[7, 8]. As a result, this network paradigm is also called Mobile Social Network (MSN).

*Teaching Through Peer Interaction* diplom.de

Clans, cliques, clubs, or classmates: Students of group communication should be encouraged to think critically about concepts to the groups that matter to them most—peers. *Peer Groups* is the first textbook to explore group communication dynamics with this vital group. Drawing on a combination of traditional and new theories, Dr. SunWolf uses an inviting writing style, shares the words and provocative thinking of real world group members, and draws on research from social psychology, communication, and group dynamics. This innovative book offers suggestions for critical thinking and new behaviors in students' own peer groups and will inspire further exploration of small group dynamics.

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