

# Preface

Peer-to-peer has emerged as a promising new paradigm for large-scale distributed computing. The International Workshop on Peer-to-Peer Systems (IPTPS) aimed to provide a forum for researchers active in peer-to-peer computing to discuss the state of the art and to identify key research challenges.

The goal of the workshop was to examine peer-to-peer technologies, applications, and systems, and also to identify key research issues and challenges that lie ahead. In the context of this workshop, peer-to-peer systems were characterized as being decentralized, self-organizing distributed systems, in which all or most communication is symmetric.

The program of the workshop was a combination of invited talks, presentations of position papers, and discussions covering novel peer-to-peer applications and systems, peer-to-peer infrastructure, security in peer-to-peer systems, anonymity and anti-censorship, performance of peer-to-peer systems, and workload characterization for peer-to-peer systems. To ensure a productive workshop environment, attendance was limited to 55 participants.

Each potential participant was asked to submit a position paper of 5 pages that exposed a new problem, advocated a specific solution, or reported on actual experience. We received 99 submissions and were able to accept 31. Participants were invited based on the originality, technical merit, and topical relevance of their submissions, as well as the likelihood that the ideas expressed in their submissions would lead to insightful technical discussions at the workshop.

A digest of the discussions that took place at the workshop is provided in the first chapter. Thanks to Richard Clayton for editing this digest based on notes taken at the workshop by himself and George Danezis. We would like to thank the steering committee for their role in initiating the workshop, MIT for hosting the workshop, Neena Lyall for local arrangements and for taking care of countless logistical details, Kevin Fu for setting up the secure Web registration site, and last but not least, the program committee for selecting a superb technical program.

Finally, we wish to thank all participants for making IPTPS 2002 a great success. Plans are currently underway for IPTPS 2003, which is sure to build on the success of this first workshop.

## Organization

### Steering Committee

Peter Druschel	Rice University, USA
Frans Kaashoek	MIT, USA
Antony Rowstron	Microsoft Research, UK
Scott Shenker	ICIR, Berkeley, USA
Ion Stoica	UC Berkeley, USA

### Program Committee

Ross Anderson	Cambridge University, UK
Roger Dingledine	Reputation Technologies, Inc., USA
Peter Druschel (co-chair)	Rice University, USA
Steve Gribble	University of Washington, USA
David Karger	MIT, USA
John Kubiawicz	UC Berkeley, USA
Robert Morris	MIT, USA
Antony Rowstron (co-chair)	Microsoft Research, UK
Avi Rubin	AT&T Labs Research, USA
Scott Shenker	ICIR, Berkeley, USA
Ion Stoica	UC Berkeley, USA

### Organizing Chairs

Frans Kaashoek	MIT, USA
Antony Rowstron	Microsoft Research, UK

### Sponsors

Microsoft Research	<a href="http://www.research.microsoft.com/">http://www.research.microsoft.com/</a>
--------------------	---