

Welcome to HotP2P '06

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Abstract

Welcome address to the third edition of the Hot Topics in Peer-to-peer International Workshop.

Welcome

We warmly welcome you to Hot-P2P '06, the third International Workshop on Hot Topics in Peer-to-Peer Systems, sponsored by the IEEE Computer Society and by the Italian FIRB “WebMINDS” Project. It is being held jointly with the International Parallel and Distributed Processing Symposium 2006 (IPDPS 2006) in Rhodes, Greece, on April 29th 2006.

Hot-P2P '06 is an international meeting that brings together researchers and practitioners, from both industry and academia, in the fields of systems, networking, and theory. It represents an opportunity to share the latest research results and ideas on P2P systems, thereby promoting research activities in this area. This third edition of the workshop follows the first one, held on October 8th, 2004 in Volendam (The Netherlands), and the second one, held on July 21st, 2005 in San Diego (California), whose success encouraged us to organize Hot-P2P '06.

We issued a Call for Papers with interests in the following topics related to Peer-to-Peer systems:

- Applications of P2P systems;
- P2P systems and infrastructures;
- Performance evaluation of P2P systems;
- Workload characterization for P2P systems;
- Trust and Security issues in P2P systems;

- Network support for P2P systems;
- Protocols for resource management, discovery, scheduling, and their evaluation;
- Fault tolerance in P2P systems;
- DHT and other scalable lookup algorithms;
- Self-organization and self-management in Grid-like environments.

In response to the Call for Papers, we received 32 papers from North and South America, Europe, and Asia. Each submitted paper was reviewed by at least three anonymous referees. Members of the Program Committee were consulted, and after the re-examining the papers we decided to accept 13 papers, thus making a very rigorous 40% acceptance rate.

The accepted papers were grouped in 5 sessions.

Session 1: Reputation and Cooperation

- “Neighbourhood Maps: Decentralized Ranking in Small-World P2P Networks”
- “Improving Cooperation in Peer-to-Peer Systems Using Social Networks”

Session 2: Privacy and Security

- “Modeling Malware Propagation in Gnutella Type Peer-to-Peer Networks”
- “Privacy-aware Presence Management in Instant Messaging Systems”

Session 3: High Availability and Fault-Tolerance

- “Using incentives to increase availability in a DHT”
- “Optimizing the finger table in Chord-like DHTs”

Session 4: Networking, Management, and Monitoring

- “Linyphi: An IPv6-Compatible Implementation of SSR”
- “Interceptor: Middleware-level Application Segregation and Scheduling for P2P Systems”
- “A Scalable Algorithm to Monitor Chord-based P2P Systems at Runtime”

Session 5: Emulation, Simulation, and Performance Modeling

- “Lightweight Emulation to Study Peer-to-Peer Systems”
- “Simulating and Optimizing A Peer-to-Peer Computing Framework”
- “Model-based Evaluation of Search Strategies in peer-to-peer Networks”
- “A formal framework for the performance analysis of P2P network protocols”

Acknowledgements

We would like to thank all authors for submitting their research papers. The success of the workshop is wholly due to the hard work of the Program Committee members and external reviewers, who handled the review process in an extremely professional manner. We sincerely thank them for donating their precious time, for reviewing papers, and for offering their expert comments. We gratefully acknowledge the sponsorship of the Italian FIRB “WebMINDS” project, that hosted the web site. We also thank the IPDPS 2006 workshop committee and organizing committee for their support in organizing the workshop.

Program Chair

Giovanni Chiola Università di Genova (Italy)

Program Committee

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Referees

Nawab Ali, Nazareno Andrade, Cosimo Anglano, Giuseppe Ateniese, Dario Bottazzi, Julien Bourgeois, Filippo Cacace, Massimo Canonico, Franck Cappello, Giovanni Chiola, Giuseppe Ciaccio, Walfredo Cirne, Michele Colajanni, Daniele Comes, Gennaro Cordasco, Antonio Corradi, Reza Curtmola, Lauro Costa, Matteo Dell’Amico, Alessandro Di Marco, Samir Djilali, Jean-Baptiste Ernst-Desmulier, Paul Ezhilchelvan, Luca Foschini, Luisa Gargano, Edmar Gurjo, Thomas Herault, Giulio Iannello, Marcelo Iury, Seny Kamara, Yongdae Kim, Mario Lauria, Laurent Lefevre, Eugenio Magistretti, Luigi Mancini, Marco Milanese, Graham Morgan, Einar Mykletun, Manish Parashar, Vishwas Patil, Marina Ribaud, Giancarlo Ruffo, Rossano Schifanella, Matteo Sereno, Sanjeev Setia, Michael Sirivianos, Alessandra Toninelli, Gene Tsudik, Aad van Moorsel, Luca Vollero, Rich Wolski.