

# Welcome to HotP2P '07

Giovanni Chiola and Franck Cappello, program co-chairs

We warmly welcome you to Hot-P2P '07, the fourth International Workshop on Hot Topics in Peer-to-Peer Systems, sponsored by the IEEE Computer Society and by the Italian FIRB "WebMINDS" Project, and held jointly with the International Parallel and Distributed Processing Symposium 2007 (IPDPS 2007) in Long Beach, California, on March 30th 2007.

Hot-P2P '07 is an international meeting that brings together researchers and practitioners, from both industry and academia, in the fields of systems, networking, and theory, and represents an occasion to share latest research results and ideas on P2P systems, thereby promoting research activities in this area. This fourth edition of the workshop follows the first one, held on October 8th, 2004 in Volendam (The Netherlands), the second one, held on July 21st, 2005 in San Diego (California), and the third one, held on April 29th, 2006 in Rhodes (Greece), the latter also in conjunction with IPDPS.

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 18 papers, and each of them was reviewed by at least three anonymous referees. In consultation with members of the Program Committee, after the re-examination of papers we have finally decided to accept 11 of the submitted papers. In addition, two invited papers are also included in the program.

The 11 accepted and 2 invited papers have been organized in 6 sessions.

## Session 1: Replication

(invited paper) "Threat-adaptive dynamic fragment replication in large scale distributed systems"  
"Effects of Replica Placement Algorithms on Performance of structured Overlay Networks"  
"A Resource Allocation Problem in Replicated P2P Storage Systems"

## Session 2: Monitoring and Management

"kP2PADM: An In-kernel Gateway Architecture for Managing P2P Traffic"  
"A Peer-to-Peer Infrastructure for Autonomous Grid Monitoring"

## Session 3: APIs and Middleware

"A Pretty Flexible API for Generic Peer-to-Peer Programming"  
"Spinneret: A log random substrate for P2P networks"

## Session 4: Routing

(invited paper) "Using Linearization for Global Consistency in SSR"  
"Performance Modelling of Peer-to-Peer Routing"  
"Reliable Routing of Event Notifications over P2P Overlay Routing Substrate in Event Based Middleware"

## Session 5: Proximity

"PON: Exploiting Proximity on Overlay Networks"  
"Proximity-Aware Collaborative Multicast for Small P2P Communities"

## Session 6: Document Sharing

"Description and Performance Evaluation of a Peer-to-Peer System for Document Sharing and Tracking using Pull-Only Information Dissemination"

### **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 offering their expert comments. We also gratefully acknowledge the sponsorship of the Italian FIRB “WebMINDS” project, that hosted the web site, and the support to the organization of the workshop from the IPDPS 2007 workshop committee and organizing committee.

### **Program co-chairs**

Giovanni Chiola, Università di Genova (Italy)

Franck Cappello, INRIA/Université Paris Sud (France)

### **Program Committee**

Cosimo Anglano, Università del Piemonte Orientale “A. Avogadro” (Italy)

Giuseppe Ateniese, Johns Hopkins University (USA)

Julien Bourgeois, LIFC, Université Franche-Comte, (France)

Michele Colajanni, Università di Modena e Reggio Emilia (Italy)

Antonio Corradi, Università di Bologna (Italy)

Paul Ezhilchelvan, University of Newcastle (UK)

Thomas Fuhrmann, University of Karlsruhe (Germany)

Luisa Gargano, Università di Salerno (Italy)

Giulio Iannello, Università Campus Biomedico, Roma (Italy)

Mario Lauria, Ohio State University (USA)

Laurent Lefevre, INRIA (France)

Luigi Mancini, Università di Roma “La Sapienza” (Italy)

Manish Parashar, Rutgers University, New Jersey (USA)

Giancarlo Ruffo, Università di Torino (Italy)

Rich Wolsky, University of California, Santa Barbara (USA)

### **Referees**

Kevin Almeroth, Cosimo Anglano, Giuseppe Ateniese, Julien Bourgeois, Franck Cappello, Giovanni Chiola, Michele Colajanni, Gennaro Cordasco, Antonio Corradi, Paul Ezhilchelvan, Thomas Fuhrmann, Luisa Gargano, Jean Patrick Gelas, Giulio Iannello, Riccardo Lancellotti, Mario Lauria, Laurent Lefevre, Luigi Mancini, Marco Milanesio, Manish Parashar, Giancarlo Ruffo, Rossano Schifanella, Rich Wolski.