

AP2PS 2012

Forward

The Fourth International Conference on Advances in Peer-to-Peer Systems (AP2PS 2012), held on September 23-28, 2012 in Barcelona, Spain, aimed at capturing the latest developments, findings and proposals in the general area of P2P computing, networking, services, and applications. The areas of interest included topics such as advances in theoretical foundations of P2P, performance analysis of P2P frameworks and applications, security, trust and reputation in P2P, time-constrained P2P systems, and quality of experience in P2P systems.

Peer-to-peer systems have considerably evolved since their original conception, in the 90's. The idea of distributing files using the user's terminal as a relay has now been widely extended to embrace virtually any form of resource (e.g., computational and storage resources), data (e.g. files and real-time streams) and service (e.g., IP telephony, IP TV, collaboration). More complex systems, however, require more sophisticated management solutions, and in this context P2P can become an interesting issue, playing the role of both the target and the enabler of new management systems.

We take here the opportunity to warmly thank all the members of the AP2PS 2012 technical program committee as well as the numerous reviewers. The creation of such a broad and high quality conference program would not have been possible without their involvement. We also kindly thank all the authors that dedicated much of their time and efforts to contribute to the AP2PS 2012. We truly believe that thanks to all these efforts, the final conference program consists of top quality contributions.

This event could also not have been a reality without the support of many individuals, organizations and sponsors. We also gratefully thank the members of the AP2PS 2012 organizing committee for their help in handling the logistics and for their work that is making this professional meeting a success. We gratefully appreciate to the technical program committee co-chairs that contributed to identify the appropriate groups to submit contributions.

We hope the AP2PS 2012 was a successful international forum for the exchange of ideas and results between academia and industry and to promote further progress in peer-to-peer systems.

We hope Barcelona provided a pleasant environment during the conference and everyone saved some time for exploring this beautiful city.

AP2PS 2012 Chairs:

Nick Antonopoulos, University of Derby, UK

Antonio Liotta, Eindhoven University of Technology, The Netherlands

Giuseppe Di Fatta, The University of Reading, UK