INFORMATIK 2004 – Informatik verbindet
34. Jahrestagung der Gesellschaft für Informatik | 22. bis 24.9.2004 | Universität Ulm

Call for Papers

Algorithms and Protocols for Efficient Peer-to-Peer Applications

Workshop at Informatik 2004

Peer-to-peer protocols and applications have drawn much attention recently. Especially file-sharing applications like Gnutella, Kazaa, and e-Donkey have become very popular. But other areas in the field of communication networks and distributed systems have also begun to use peer-to-peer concepts. Meanwhile, peer-to-peer protocols are used in quite diverse areas, such as multicast streaming of multimedia content, distributed databases, instant messaging services, and grid-computing middleware.

However, as diverse as the applications are the algorithms and protocols that are based on peer-to-peer concepts. In order to achieve efficient, scalable solutions, it is thus especially important to support the respective application with a suitable peer-to-peer approach.

Following the overall motto of the conference “Informatik verbindet”, this workshop aims at bringing together researchers from all areas of informatics and computer science to discuss how the diversity of peer-to-peer protocols and algorithms can be leveraged to create efficient and scalable solutions for all kinds of distributed systems. We expect this workshop to be of interest for researchers from both, academic institutions and industry. The participants may either have a peer-to-peer networking background themselves, or have an interest in the application of peer-to-peer technology to other areas of distributed systems.

Topics of interest include (non-exhaustive list):

- lessons learned from deploying real-world P2P protocols
- evolution of P2P file sharing protocols/state-of-the-art P2P file sharing techniques
- trust, security, anonymity, and accounting: special focus on P2P in open environments
- performance evaluation of P2P applications using different underlying P2P protocols
- tools and frameworks for P2P protocol and application development
- incentives for using the P2P approach in systems like distributed databases and grid computing middleware
- challenges faced and benefits gained when turning traditional client-server applications into P2P applications
- P2P grid computing: tackling platform heterogeneity and code mobility
- trends and advances in P2P application development
- examples of modern P2P applications from diverse research areas
- free-riding and other non-technical aspects with using P2P applications

... and any further topic promoting the common understanding of and research efforts in performance related issues of P2P protocols and applications.

Important Information

The workshop will cover one day. Currently, it is scheduled for Thursday, 23.09. but the organizers of the Informatik 2004 event might shift it to another day of that week.

Please note the following deadlines:

Submission deadline
30 April 2004

Notification about acceptance/rejection
28 May 2004

Deadline for camera-ready version
30 June 2004

Submissions have to be formatted according to the style guidelines of the Springer LNI series (available via www.gi-ev.de/LNI/index.html).
Submissions must not exceed five pages, including figures. Please send your submission electronically and *only in pdf format* to:

fuhrmann@tm.uka.de.

Accepted submissions will be published in the proceedings of the Informatik 2004 conference. Further information will be available soon at www.informatik2004.de.

Program committee

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