



The First International Workshop on  
**Peer-to-Peer Knowledge Management  
(P2PKM)<sup>†</sup>**

[www.p2pkm.org](http://www.p2pkm.org)

August 22, 2004 - Boston, Massachusetts, USA

Collocated with MobiQuitous 2004 ([www.mobiQuitous.org](http://www.mobiQuitous.org))

## Workshop Co-Chairs

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*Steffen Staab*, Univ. of Karlsruhe, Germany

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*Bernard Traversat*, SUN Microsystems,  
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## Important Dates

*Submission deadline*: July 5<sup>th</sup>, 2004

*Acceptance notification*: July 26<sup>th</sup>, 2004

*Camera ready due*: August 9<sup>th</sup>, 2004

## The Scope

In the last couple of years, P2P and KM have followed different but converging paths. In fact, P2P technologies have left their initial "computational", "anarchoid", and spontaneous fashion to embrace more service level domains and business settings. On the other hand, KM is questioning its centralized assumption based on the implicit belief that knowledge is managed successfully when it can be standardized and controlled. In this sense, it seems that while P2P is looking for value added domains to better exploit its technological potential, KM is looking for a technological paradigm more able to fit an emerging distributed organization of knowledge.

The convergence of P2P and KM creates new challenges for researchers to address: new methodologies to model, design, and deploy distributed KM solutions; theories and algorithms to represent the social and semantic dimensions of a knowledge network; mechanisms to cope with the dynamic autonomous nature of P2P and to provide means to support emergent network self-organization. New technologies should be provided in order to support full operational functioning of P2P KM systems, ensuring high extensibility of the solutions along several dimensions, such as scalability in the number of peers, size and kind of supported knowledge bases, level of heterogeneity in knowledge representation, robustness, etc.

The P2PKM workshop is intended to serve as an active forum for researchers and practitioners, where they will have the possibility to exchange and discuss research results, novel ideas and experiences, laying in the intersection of the P2P, KM and Semantic Web, database, multi agent, as well as other related technologies.

## Topics of Interest

- Distributed KM business cases and experiences
- P2P to support (virtual) communities of practice and interest networks
- Organizational impacts of P2P technologies, and social adoption of distributed technologies
- Methodologies to analyse, design and deploy distributed KM solutions
- Social models to design and support knowledge intensive collaborative processes in a P2P environment
- Data models and distributed query languages
- Meta-data representation and management
- Algorithms to discover distributed knowledge among interacting peers
- Protocols, algorithms and techniques to support semantic interoperability
- Trust and reputation as means to support knowledge acquisition
- Semantic Web and P2P KM systems
- Agent-mediated knowledge management
- P2P KM system architectures, infrastructure and middleware
- Experience with deployed systems, performance evaluation and benchmarking

## Invited Talks

Fausto Giunchiglia, University of Trento, Italy. "*Semantic Matching: Enabling Meaningful Knowledge Management Among Peers*"

Mark Maybury, the MITRE Corporation, USA. "*Exploitation of Digital Artifacts and Interactions to Enable Peer-to-Peer Knowledge Management*"

## Submission

We invite the submission of high quality technical papers. The submitted papers should be formatted as close as possible to the Springer LNCS style and must not exceed 12 pages including figures and references.

We appreciate support from the FP6 project KnowledgeWeb



<sup>†</sup> For complete call for papers and other information see workshop web site