

## Objectives

**Knowledge Management (KM)** is a predominant trend in business in the recent years. It is not only an important field of application for AI and Semantic Web technologies, such as CBR for Intelligent Lessons-Learned Systems, or Text Classification for Information Push services; it also provides new challenges to the AI community, like context-aware knowledge delivery. Scaling-up research prototypes to real-world solutions usually requires an application-driven integration of several basic technologies, e.g., ontologies for knowledge sharing and reuse plus collaboration support like CSCW systems, and personalized information services. Typical characteristics of such an integration are:

- ◆ manifold logically and physically dispersed actors and knowledge sources,
- ◆ different degrees of formalization of knowledge,
- ◆ different kinds of (web-based) services and (legacy) systems,
- ◆ conflicts between local (individual) and global (group or organizational) goals.

**Agent technology** has already been successfully employed for many partial solutions within the overall picture: Agent-based workflow, cooperative information gathering, intelligent information integration, or personal information agents, are established techniques in this area. In order to cope with the inherent complexity of a more comprehensive solution, the concept of **Agent-mediated Knowledge Management (AMKM)** deals with collective aspects in an attempt to cope with the conflict between desired order and actual behavior in dynamic environments.

AMKM introduces a social layer, which structures the society of agents by defining specific roles and possible interactions between them.

## Submissions

We invite the electronic submission of technical papers. Full papers should have a length of up to 10 pages and should be sent in PDF format by e-mail to [elst@dfki.de](mailto:elst@dfki.de).

Those interested in participating without a full paper should send a two-page extended abstract describing their AMKM-related work and areas of interest. They may discuss work in any stage of development, from concepts and future directions up to finished work. We explicitly invite system demonstrations which might be announced/accompanied by either a full paper or an extended abstract.

## ECAI 2004 Workshop on



# Agent-Mediated Knowledge Management (AMKM 2004)

## Call for Papers

August 22-27, 2004,  
Universidad Politécnica de  
Valencia (Spain)

[www.amkm2004.de.ms](http://www.amkm2004.de.ms)

## Topics of Interest

In this workshop we invite contributions which illustrate methodological, technical and application aspects of Agent-mediated Knowledge Management. Topics of interest include:

- ◆ Methodology for AMKM
  - ◇ Analysis and Design Methods for AMKM Systems
  - ◇ Relationship between AMKM and Agent-oriented Software Engineering
  - ◇ Relationship between AMKM and Business Engineering Methods
- ◆ Functionalities in AMKM Systems
  - ◇ Distributed Organizational Memories
  - ◇ Ontology Negotiation and Ontology Lifecycle Management
  - ◇ Agents for Group Formation and Awareness
  - ◇ Agents for Supporting Social Processes (Trust, Reputation)
  - ◇ Agent-based Workflow in the KM Context
  - ◇ Collaborative Information Retrieval
  - ◇ Emergent Semantics and Pervasive Semantics
- ◆ Implementation of AMKM Systems
  - ◇ Architectures and Platforms for Socially Enabled Agents
  - ◇ Distributed KR&R for Socially Enabled Agents
  - ◇ Semantic Web methods for AMKM
  - ◇ User Modeling for Agent Mediated Social Processes
  - ◇ Human-Computer Interaction in AMKM (Ontology Visualization, Web Design Guidelines for Knowledge Navigation, User Interfaces for KM)
  - ◇ Practical application examples for (aspects of) AMKM systems
- ◆ Basic Research Questions for AMKM
  - ◇ Benefits and reasons for the application of the agent paradigm to KM
  - ◇ Organizational implications of agent use in KM (e.g., with respect to risks and responsibilities)
  - ◇ Formal models for AMKM
  - ◇ Relationships to other research paradigms like P2P or Grid computing, Semantic Web and Semantic Web Services, or mobile computing and mobile KM
  - ◇ Evaluation of KM and AMKM systems

## Important Dates and Submission Style

Submission of papers: 1. April 2004  
Author notification: 1. Mai 2004  
Camera ready papers: 1. Juni 2004

<http://www.dsic.upv.es/ecai2004/cfp/style/style.html>

## Workshop Organizers

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## Predecessor Event: AMKM 2003

The first AMKM workshop (AMKM-2003) was organized as a AAAI Spring Symposium at Stanford University. Revised and additional papers (including an introduction / overview on AMKM) are available as Volume 2926 of the Springer LNAI Series.

### Excerpt of Contributions at AMKM 2003

- ♦ Peer-Mediated Distributed Knowledge Management
- ♦ The Impact of Conversational Navigational Guides on the Learning, Use, and Perceptions of Users of a Web Site
- ♦ Agent-Oriented Knowledge Management in Learning Environments: A Peer-to-Peer Helpdesk Case Study
- ♦ Towards Evaluation of Peer-to-Peer-Based Distributed Information Management Systems
- ♦ Session on Agent-Based Community Support
- ♦ Towards Trust-Based Knowledge Management for Mobile Communities
- ♦ Knowledge Management Framework for Collaborative Learning Support
- ♦ Agent-Mediated Knowledge Management for Tracking Internet Behavior
- ♦ A Quantum Approach to Knowledge Fusion and Organizational Mergers
- ♦ Improving Organizational Memory through Agents for Knowledge Discovery in Database
- ♦ Experience in using RDF in Agent-Mediated Knowledge Architectures
- ♦ Using an Agent-Based Framework and Separation of Concerns for the Generation of Document Classification Tools
- ♦ Modeling Context-Aware Distributed Knowledge
- ♦ Discovering, Visualizing and Sharing Knowledge through Personalized Learning Knowledge Maps
- ♦ Agentized, Contextualized Filters for Information Management
- ♦ Personal Agents for Implicit Culture Support
- ♦ Working with a Knowledge Management Tool in a Domain Context
- ♦ A Spreading Activation Framework for Ontology-Enhanced Adaptive Information Access within Organisations
- ♦ Ontology Extraction for Educational Knowledge Bases
- ♦ Analyzing the Requirements for Knowledge Management using Intentional Analysis
- ♦ Perspectives: An Analysis of Multiple Viewpoints in Agent-Based Systems