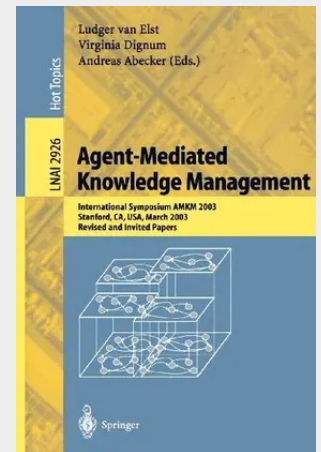


Agent-Mediated Knowledge Management

International Symposium AMKM 2003, Stanford, CA, USA, March 24-26, 2003, Revised and Invited Papers

In this book, we present a collection of papers around the topic of Agent-Mediated Knowledge Management. Most of the papers are extended and - proved versions of work presented at the symposium on Agent-Mediated Knowledge Management held during the AAAI Spring Symposia Series in March 2003 at Stanford University. The aim of the Agent-Mediated Knowledge Management symposium was to bring together researchers and practitioners of the fields of KM and agent technologies to discuss the benefits, possibilities and added value of cross-fertilization. Knowledge Management (KM) has been a predominant trend in business in recent years. Not only is Knowledge Management an important field of application for AI and related techniques, such as CBR technology for intelligent lessons-learned systems, it also provides new challenges to the AI community, like, for example, 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, collaboration support like CSCW systems, and personalized information services. Typical characteristics to be dealt with in 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.

Towards Agent-Mediated Knowledge Management.- Towards Agent-Mediated Knowledge Management.- Section I: Collaboration and Peer-to-Peer Support.- 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 Knowledge Management Systems.- Section II: Agent Based Community Support.- TAKEUP: Trust-Based Agent-Mediated Knowledge Exchange for Ubiquitous Peer Networks.- Knowledge Management Framework for Collaborative Learning Support.- An Agent-Based Approach to Mailing List Knowledge Management.- Section III: Agent Models for Knowledge and Organizations.- Information Fields in Organization Modeling Using an EDA Multi-agent Architecture.- A Quantum Perturbation Model (QPM) of 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.- Section IV: Context and Personalization.- Modeling Context-Aware Distributed Knowledge.- Discovering, Visualizing, and Sharing Knowledge through Personalized Learning Knowledge Maps.- Agentized, Contextualized Filters for Information Management.- Implicit Culture-Based Personal Agents for Knowledge Management.- Section V: Ontologies and Semantic Web.- Integrating External Sources in a Corporate Semantic Web Managed by a Multi-agent System.- Automatically Generated DAML Markup for Semistructured Documents.- A Spreading Activation Framework for Ontology-Enhanced Adaptive Information Access within Organisations.- Ontology Extraction for Educational Knowledge Bases.- Representing Interaction Protocols in DAML.- Adding AI to Web Services.- Section VI: Agents and Knowledge Engineering.- Knowledge Discovery in Databases and Agent-Mediated Knowledge Management.- Intentional Analysis for Distributed Knowledge Management.- Perspectives: An Analysis of Multiple Viewpoints in Agent-Based Systems.- A Multi-agent Architecture for Evolving Memories.- Agent-Mediated Knowledge Engineering Collaboration.- Dynamic Generation of Agent Communities from Distributed Production and Content-Driven Delivery of Knowledge.



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