

Agent Technologies for Knowledge Management

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Agents for Knowledge Management

- Knowledge management agent based systems take advantage of four different kinds of agent
 - User Agent
 - Middle Agent
 - Resource Agent
 - Ontology Agent
- Interacting through
 - standard ACL
 - Coordination media
- Using different coordination techniques
 - market based techniques
 - distributed artificial intelligence techniques

Main Applications

- Two main application fields – now
 - Information retrieval
 - Decentralized digital libraries
- The use of agents allows
 - heterogeneous information repositories
 - personalization to user's preferences
 - scaling, flexibility and extensibility

Future Challenges

- Automatic (or semi-automatic) document and workflow management
 - Different ontology management
 - Automatic annotation of information
- It may be possible by integrating agent and Web semantic technologies
 - DAML-OIL
 - OWL (Ontology Web Language)