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Soggetti	Artificial intelligence Computer communication systems Database management Information storage and retrieval Application software User interfaces (Computer systems) Artificial Intelligence Computer Communication Networks Database Management Information Storage and Retrieval Information Systems Applications (incl. Internet) User Interfaces and Human Computer Interaction
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Pervasive Information Service Provision -- ACCESS: An Agent Architecture for Ubiquitous Service Delivery -- Adaptive Agent-Based Service Composition for Wireless Terminals -- An Information Notification Model with VPC on KODAMA in an Ubiquitous Computing Environment, and Its Experiment -- Information Agents and Peer-to-Peer Computing -- Multi-agent Systems and Peer-to-Peer Computing: Methods, Systems, and Challenges -- A Peer-to-Peer Approach to Resource Discovery in Multi-agent Systems -- Ostensive Automatic Schema Mapping for Taxonomy-Based Peer-to-Peer Systems -- Issues

of Trading and Negotiation -- Proposal-Based Negotiation in Convex Regions -- A Conversational Component-Based Open Multi-agent Architecture for Flexible Information Trading -- The Search for Coalition Formation in Costly Environments -- Information Gathering and Integration -- GraniteNights – A Multi-agent Visit Scheduler Utilising Semantic Web Technology -- Send Fredo off to Do This, Send Fredo off to Do That -- Database Integration Using Mobile Agents -- Collaborative Search and Filtering -- Adaptive Web Search Based on a Colony of Cooperative Distributed Agents -- Agents for Collaborative Filtering -- Collaboration in Open Environments -- Emergence and Stability of Collaborations Among Rational Agents -- A Framework for the Social Description of Resources in Open Environments -- A Coordination Framework for a Community of Over-Helping Agents -- Issues of Trust in Agent-Based Information Provision -- Trust Networks on the Semantic Web -- Exchanging Advice and Learning to Trust -- Information Agent Systems Engineering (1) -- A Component-Based Approach for Interoperability across FIPA-Compliant Platforms -- Logic Programming for Evolving Agents -- Temporal and Spatial Analysis to Personalise an Agent's Dynamic Belief, Desire, and Intention Profiles -- Information Agent Systems Engineering (2) -- Meta-reasoning for Agents' Private Knowledge Detection -- Formalizing Retrieval Goal Change by Prioritized Circumscription – Preliminary Report – -- Organisational Change: Deliberation and Modification.

Sommario/riassunto

These are the proceedings of the 7th International Workshop on Cooperative Information Agents (CIA 2003), held at the Sonera Conference Center in Helsinki, Finland, August 27–29, 2003. It was co-located with the 4th Agentcities Information Days. One key challenge of developing advanced agent-based information systems is to balance the autonomy of networked data and knowledge sources with the potential payoff of leveraging them by the appropriate use of intelligent information agents on the Internet. An information agent is a computational software entity that has access to one or multiple, heterogeneous, and distributed data and information sources; proactively searches for and maintains relevant information on behalf of its human users or other agents, preferably just-in-time. In other words, it is managing and overcoming the difficulties associated with information overload in the open and exponentially growing Internet and Web. Depending on the application and tasks at hand information agents may collaborate in open, networked data and information environments to provide added value to a variety of applications in different domains. Thus, research and development of information agents is inherently interdisciplinary: It requires expertise in information retrieval, artificial intelligence, database systems, human-computer interaction, and Internet and Web technology. Initiated in 1997, the purpose of the annual international workshop series on cooperative information agents (CIA) is to provide an interdisciplinary forum for researchers, software developers, and managers to get informed about, present, and discuss the latest high-quality results in advancements of theory and practice in information agent technology for the Internet and Web. Each event of this renowned series attempts to capture the intrinsic interdisciplinary nature of this research area by calling for contributions from different research communities, and by promoting open and informative discussions on all related topics.
