

1. Record Nr.	UNINA9910767564603321
Titolo	Cooperative Information Agents VIII : 8th International Workshop, CIA 2004, Erfurt, Germany, September 27-29, 2004, Proceedings // edited by Matthias Klusch, Sascha Ossowski, Vipul Kashyap, Rainer Unland
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2004
ISBN	3-540-30104-6
Edizione	[1st ed. 2004.]
Descrizione fisica	1 online resource (XII, 312 p.)
Collana	Lecture Notes in Artificial Intelligence ; ; 3191
Disciplina	006.33
Soggetti	Artificial intelligence Application software Information storage and retrieval Database management Computer communication systems User interfaces (Computer systems) Artificial Intelligence Information Systems Applications (incl. Internet) Information Storage and Retrieval Database Management Computer Communication Networks User Interfaces and Human Computer Interaction
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Invited Contributions -- Multi-agent Systems and Distributed Data Mining -- Society-Centered Design for Socially Embedded Multiagent Systems -- Agents and OWL-S -- Information Agents and P2P Computing -- Design and Implementation of Agent Community Based Peer-to-Peer Information Retrieval Method -- Towards Monitoring of Group Interactions and Social Roles via Overhearing -- A Probabilistic Approach to Predict Peers' Performance in P2P Networks -- Personalizing Information Retrieval with Multi-agent Systems -- Issues of Communication -- On the Impact of Agent Communication

Languages on the Implementation of Agent Systems -- Reasoning About Communication – A Practical Approach Based on Empirical Semantics -- The Evolution of Probabilistic Reciprocity in a Multi-agent Environment with Neighborhoods -- Recommender Agents -- Collaboration Analysis in Recommender Systems Using Social Networks -- Qualitative Analysis of User-Based and Item-Based Prediction Algorithms for Recommendation Agents -- Information Agents and Mobile Computing -- Agents that Coordinate Devices, Services, and Humans in Ubiquitous Computing -- Multi-agent Technology as an enabler of Computer Supported Cooperative Work for the Mobile Workforce -- A-Globe: Agent Platform with Inaccessibility and Mobility Support -- Industrial Applications -- Supply Chain Management using Multi-agent System -- An Agent Simulation Model for the Québec Forest Supply Chain -- Performance Analysis Of Multiagent Industrial System -- Cooperation in Open Environments -- The RoleX Environment for Multi-agent Cooperation -- Auction Equilibrium Strategies for Task Allocation in Uncertain Environments -- Agent's Multiple Inquiries for Enhancing the Partnership Formation Process.

Sommario/riassunto

These are the proceedings of the 8th International Workshop on Cooperative Information Agents (CIA 2004), held at the Fair and Congress Center in -furt, Germany, September 27–29, 2004. It was part of the multi-conference Net. ObjectDays 2004, and, in particular, was co-located with the 2nd German Conference on Multiagent Systems Technologies (MATES 2004). In today's networked world of linked heterogeneous, pervasive computer systems, devices, and information landscapes, the intelligent coordination and provision of relevant added-value information at any time, anywhere, by means of cooperative information agents becomes increasingly important for a variety of applications. An information agent is a computational software entity that has access to one or multiple, heterogeneous, and geographically dispersed data and information sources. It proactively searches for and maintains 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 open, pervasive information and service landscapes. Cooperative information agents may collaborate with each other to accomplish both individual and shared joint goals depending on the actual preferences of their users, budgetary constraints, and resources available. One major challenge of developing agent-based intelligent information systems in open environments is to balance the autonomy of networked data, information, and knowledge sources with the potential payoff of leveraging them using information agents. Interdisciplinary research and development of information agents requires expertise in relevant domains of information retrieval, artificial intelligence, database systems, human-computer interaction, and Internet and Web technology.
