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Nota di contenuto	Personal Assistance: Interaction and Avatars -- Interactive Integration of Information Agents on the Web -- Improving Communication in 3D Virtual Environments by Means of Task Delegation in Agents -- Wizard of Oz Method for Learning Dialog Agents -- Information Search and Recommendation -- Supporting User-Profiled Semantic Web-Oriented Search -- Recommending a Trip Plan by Negotiation with a Software Travel Agent -- CoWing: A Collaborative Bookmark Management System -- Context Aware Agents for Personal Information Services -- Data Warehousing and Mining -- Data Warehouse Quality and Agent

Technology -- Decision Trees for Multiple Abstraction Levels of Data -- Collaborative Information Agents: Systems and Applications -- Supporting Information Integration With Autonomous Agents -- Using Agents in Performing Multi-Site Queries -- Extending a Multi-agent System for Genomic Annotation -- Domain-Independent Ontologies for Cooperative Information Agents -- Trading Internet Agents: Auctions -- An Autonomous Bidding Agent for Simultaneous Auctions -- Optimality and Risk in Purchase from Multiple Auctions -- Cryptographic Protocols for Secure Second-Price Auctions -- Trading Internet Agents: Strategies, Negotiation, and Design -- Equilibria Strategies for Selecting Sellers and Satisfying Buyers -- On the Logical Aspects of Argument-Based Negotiation Among Agents -- Introducing a Multi-agent, Multi-criteria Methodology for Modeling Electronic Consumer's Behavior: The Case of Internet Radio -- Modeling Commercial Knowledge to Develop Advanced Agent-Based Marketplaces for E-commerce -- Arms Race Within Information Ecosystems -- Issues of Collaboration and Coordination -- Information Agents: The Social Nature of Information and the Role of Trust -- A Framework for the Exchange and Installation of Protocols in a Multi-agent System -- Cooperation Between Intelligent Information Agents -- A Mechanism for Temporal Reasoning by Collaborative Agents -- Agent Coordination Infrastructures for Virtual Enterprises and Workflow Management -- Information Agents for Mobile and Wireless Environments: Practical Issues and Directions -- Mobile Agents: State of the Art and Research Opportunities -- Enabling FIPA Agents on Small Devices -- Towards Efficient and Reliable Agent Communication in Wireless Environments -- Information Agents for Mobile and Embedded Devices.

| Sommario/riassunto | These are the proceedings of the Fifth International Workshop on Cooperative Information Agents, held in Modena, Italy, September 6-8, 2001. Information agent technology has become one of the major key technologies for the Internet and the World Wide Web. It mainly emerged as a response to the challenges of cyberspace from both the technological and human user perspective. Development of information agents requires expertise from di?erent research disciplines such as Arti?cial Intelligence (AI), advanced databases and knowledge base systems, distributed information systems, information retrieval, and Human Computer Interaction (HCI). The ?fth international workshop on Cooperative Information Agents (CIA) continued the tradition by capturing the intrinsic interdisciplinary nature of the above research area by calling for contributions from di?erent research communities, and by promoting open and informative discussions on all related topics. In keeping with tradition, the workshop featured a sequence of regular and invited talks of excellence given by leading experts in the ?eld. This year the topics of the talks are mainly on the challenges of information agents in the upcoming age of ubiquitous and pervasive computing. These challenges are in particular due to the necessity of an e?cient utilization, evolution, and trust management of information agents for user-oriented information search, pro- sion, and visualization in networked computing environments with small, mobile, and embedded devices. A di?erent issue concerns the potential of agent-based support of massive distributed data warehousing worldwide. |