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Descrizione fisica	1 online resource (X, 410 p.)
Collana	Lecture Notes in Artificial Intelligence ; ; 2922
Disciplina	006.3
Soggetti	Artificial intelligence Computer communication systems Software engineering Computer logic Artificial Intelligence Computer Communication Networks Software Engineering Logics and Meanings of Programs
Lingua di pubblicazione	Inglese
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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	Section I: Fundamentals of Agent Communication -- Conventional Signalling Acts and Conversation -- An Empirical Model of Communication in Multiagent Systems -- An Exploration in Using Cognitive Coherence Theory to Automate BDI Agents' Communicational Behavior -- A Performative Type Hierarchy and Other Interesting Considerations in the Design of the CASA Agent Architecture -- Model Checking for ACL Compliance Verification -- Logic-Based Agent Communication Protocols -- Section II: Agent Communication and Commitments -- Protocol Specification Using a Commitment Based ACL -- A Logical Model of Social Commitment for Agent Communication -- Commitment and Argument Network: A New Formalism for Agent

Communication -- Resolving Commitments among Autonomous Agents -- Nonmonotonic Commitment Machines -- Section III: Communication within Groups of Agents -- Issues in Multiparty Dialogues -- Towards a Testbed for Multi-party Dialogues -- Intra-role Coordination Using Group Communication: A Preliminary Report -- LOTTO: Group Formation by Overhearing in Large Teams -- Proactive Communications in Agent Teamwork -- Section IV: Dialogues -- Modularity in Interaction Protocols -- Concepts of Optimal Utterance in Dialogue: Selection and Complexity -- The Mechanics of Some Formal Inter-agent Dialogues -- A Cooperative Dialogue Game for Resolving Ontological Discrepancies -- The Posit Spaces Protocol for Multi-agent Negotiation -- On Interest-Based Negotiation.

Sommario/riassunto

In this book we present a collection of papers around the topic of Agent Communication. The communication between agents has been one of the major topics of research in multi-agent systems. The current work can therefore build on a number of previous workshops, the proceedings of which have been published in earlier volumes in this series. The basis of this collection is the accepted submissions of the workshop on Agent Communication Languages which was held in conjunction with the AAMAS conference in July 2003 in Melbourne. The workshop received 15 submissions of which 12 were selected for publication in this volume. Although the number of submissions was less than expected for an important area like Agent Communication there is no reason to worry that this area does not get enough attention from the agent community. First of all, the 12 selected papers are all of high quality. The high acceptance rate is only due to this high quality and not to the necessity to select a certain number of papers. Besides the high-quality workshop papers, we noticed that many papers on Agent Communication found their way to the main conference. We decided therefore to invite a number of authors to revise and extend their papers from this conference and to combine them with the workshop papers. We believe that the current collection comprises a very good and quite complete overview of the state of the art in this area of research and gives a good indication of the topics that are of major interest at the moment.
