1. Record Nr.   UNINA9910144128003321

   Titolo   Multi-agent system engineering : 9th European Workshop on Modelling
                        Autonomous Agents in a Multi-Agent World, MAAMAW'99 : Valencia,
                        Spain, June 30-July 2, 1999 : proceedings / / Francisco J. Garijo,
                        Magnus Boman (editors)

   Pubbl/distr/stampa   New York : , : Springer, , [1999]
                        Â©1999

   ISBN   1-280-95776-X
                        9786610957767
                        3-540-48437-X

   Edizione   [1st ed. 1999.]

   Descrizione fisica   1 online resource (244 p.)

   Collana   Lecture Notes in Artificial Intelligence ; ; 1647

   Disciplina   006.3

   Soggetti   Intelligent agents (Computer software)

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Note generali   Description based upon print version of record.

   Nota di bibliografia   Includes bibliographical references and index.

   Nota di contenuto   Engineering Aspects of Multi-agent Systems -- Agent-Oriented
                        Software Engineering -- Specification of Bahavioural Requirements
                        within Compositional Multi-agent System Design -- Agent-Oriented
                        Design -- A Developer's Perspective on Multi-agent System Design --
                        Multi-agent Systems Framework -- A Development Environment for the
                        Realization of Open and Scalable Multi-agent Systems -- Modelling
                        Agents in Hard Real-Time Environments -- Multi-agent Systems on the
                        Internet: Extending the Scope of Coordination towards Security and
                        Topology -- Languages and Protocols -- Protocol Engineering for
                        Multi-agent Interaction -- Designing Agent Communication Languages
                        for Multi-agent Systems -- A Temporal Agent Communication
                        Language for Dynamic Multi-agent Systems -- Multi-paradigm
                        Languages Supporting Multi-agent Development -- Negotiation and
                        Cooperation -- An Efficient Argumentation Framework for Negotiating
                        Autonomous Agents -- Negotiating Service Provisioning -- Cooperative
                        Plan Selection Through Trust -- Extending Social Reasoning to Cope
                        with Multiple Partner Coalitions -- Formal Models -- Basic Mental
                        Attitudes of a Collaborating Agent: Cognitive Primitives for MAS --

	Subjective Situations -- Formal Analysis of Models for the Dynamics of Trust Based on Experiences.
Sommario/riassunto	In the ten years since the first MAAMAW was held in 1989, at King's College, Cambridge, the field of Multi-Agent Systems (MAS) has flourished. It has attracted an increasing amount of theoretical and applied research. During this decade, important efforts have been made to establish the scientific and technical foundations of MAS. MAAMAW publications are testimony to the progress achieved in key areas such as agent modelling and reasoning, multi-agent interaction and communication, and multi-agent organisation and social structure. Research results have covered a wide range of inter-related topics in each area including agent architectures, reasoning models, logics, conflict resolution, negotiation, resource allocation, load balancing, learning; social behaviour and interaction, languages and protocols, interagent and agent-human communication, social models, agent roles, norms and social laws, and static and dynamic organisational structures. The feasibility and the viability of the proposed models and techniques have been demonstrated through MAS applications in heterogeneous domains including electronic commerce, co-operative work, telecommunications, social and biological systems, robotics, office and business automation, public administration, social simulations and banking. As the applicability of the technology became understood, the multi-agent paradigm has been progressively accepted by product managers and system developers, giving rise to a considerable amount of business expectation from industry. These expectations do not rest on the concept or metaphor of agent, but on the development of MAS useful in an industrial setting, with real-time systems presenting the biggest challenge.