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	Nota di contenuto	Foundations of Multi-agent Systems -- Perspectives on Organizations in Multi-agent Systems -- Multi-agent Infrastructure, Agent Discovery, Middle Agents for Web Services and Interoperation -- Logical Foundations of Agent-Based Computing -- Standardizing Agent Communication -- Standardizing Agent Interoperability: The FIPA Approach -- Distributed Problem Solving and Planning -- Automated Negotiation and Decision Making in Multiagent Environments -- Agents? Advanced Features for Negotiation and Coordination -- Social Behaviour, Meta-reasoning, and Learning -- Towards Heterogeneous

Agent Teams -- Social Knowledge in Multi-agent Systems -- Machine Learning and Inductive Logic Programming for Multi-agent Systems -- Relational Reinforcement Learning -- From Statistics to Emergence: Exercises in Systems Modularity -- Emotions and Agents -- Applications -- Multi-agent Coordination and Control Using Stigmergy Applied to Manufacturing Control -- Virtual Enterprise Modeling and Support Infrastructures: Applying Multi-agent System Approaches -- Specialised Agent Applications -- Agent-Based Modelling of Ecosystems for Sustainable Resource Management -- Cooperating Physical Robots: A Lesson in Playing Robotic Soccer -- A Multi-agent Study of Interethnic Cooperation.

| Sommario/riassunto | The Advanced Course on Artificial Intelligence ACAI 2001 with the subtitle M ulti- Agent Systems and Their Applications , held in Prague, Czech Republic, was a joint event of ECCAI (the European Coordinating Committee for Artificial Intelligence) and AgentLink, the European Network of Excellence for Agent-Based Computing. Whereas ECCAI organizes two-week ACAI courses on different topics every second year, AgentLink s European Agent Systems Summer School (EASSS) has been an annual event since 1999. This year, both of these important events were merged together, giving weight to the fact that multi-agent systems currently represent one of the hottest topics in AI research. The name, ACAI 2001 Summer School, is intended to emphasize that this event continues the tradition of regular ECCAI activities (ACAI), as well as the EASSS summer schools of AgentLink. The Prague ACAI Summer School was proposed and initiated by both the Gerstner Laboratory, Czech Technical University, Prague (GL-CTU) and the Czech Society for Cybernetics and Informatics (CSKI), with the support of the Austrian Research Institute for Artificial Intelligence in Vienna (OFAI). Part of our motivation was catalyzed by experience gained in 1992 during the International Summer School Advanced Topics in Artificial Intelligence (see Springer s LNAI vol. 617) which was organized by the same Czech and Austrian bodies. One of the most important stimulating factors behind the organization of ACAI 2001 was the support provided by the European Commission to the Gerstner Laboratory within the frame of the MIRACLE Center of Excellence project (IST No. |