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	Collana	Lecture Notes in Artificial Intelligence ; ; 3862
	Disciplina	006.3
	Soggetti	Artificial intelligence
		Computer communication systems
		Software engineering
		Computer logic
		Programming languages (Electronic computers)
		Artificial Intelligence
		Computer Communication Networks
		Software Engineering
		Logics and Meanings of Programs
		Programming Languages, Compilers, Interpreters
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	Nota di contenuto	Invited Papers -- MetateM: The Story so Far -- Agent-Based Computing and Programming of Agent Systems -- Multi-agent Techniques and Issues -- Dynamic Self-control of Autonomous Agents -- Bridging Agent Theory and Object Orientation: Importing Social Roles in Object Oriented Languages -- Implementation Techniques for Solving POMDPs in Personal Assistant Agents -- Using a Planner for Coordination of Multiagent Team Behavior -- Reusable Components for Implementing Agent Interactions -- Multi-agent Programming -- An AgentSpeak Meta-interpreter and Its Applications -- Extending the Capability Concept for Flexible BDI Agent Modularization -- A Model-Based Executive for Commanding Robot Teams -- Hermes: Implementing

Goal-Oriented Agent Interactions -- Multi-agent Platforms and Organisation -- Organization and Mobility in Mobile Agent Computing -- Programming MAS with Artifacts -- Programming Deliberative Agents for Mobile Services: The 3APL-M Platform -- Implementing Multi-agent Systems Organizations with INGENIAS -- Declarative Agent Programming Support for a FIPA-Compliant Agent Platform.

Sommario/riassunto	The area of autonomous agents and multi-agent systems (MAS) has grown into a promising technology offering sensible alternatives for the design of distributed, intelligent systems. Several efforts have been made by researchers and practitioners, both in academia and industry, and by several standardisation consortia in order to provide new languages, tools, methods, and frameworks so as to establish the necessary standards for a wide use of MAS technology. The papers of this volume focus on the development of programming languages and tools that can effectively support MAS programming and the implementation of key notions in MAS in a unified framework to bridge the gap from analysis and design to effective implementation that way. This book constitutes the thoroughly refereed postproceedings of the Third International Workshop on Programming Multi-Agent Systems, ProMAS 2005, held in Utrecht, The Netherlands in July 2005 as an associated event of AAMAS 2005, the main international conference on autonomous agents and multi-agent systems. The 14 revised full papers presented together with 2 invited articles are organized in topical sections on multi-agent techniques and issues, multi-agent programming, and multi-agent platforms and organisation.