1. Record Nr. UNINA9910483354403321

Titolo	Agent-oriented software engineering V : 5th international workshop, AOSE 2004, New York, NY, USA, July 19, 2004 : revised selected papers / / James Odell, Paolo Giorgini, Jorg P. Muller (eds.)
Pubbl/distr/stampa	Berlin ; ; New York, : Springer, c2005
ISBN	3-540-30578-5
Edizione	[1st ed. 2005.]
Descrizione fisica	1 online resource (X, 246 p.)
Collana	Lecture notes in computer science, , 0302-9743 ; ; 3382. State-of-the-art survey
Altri autori (Persone)	OdellJames J GiorginiPaolo MullerJ. P <1965-> (Jorg P.)
Disciplina	005.1
Soggetti	Software engineering Intelligent agents (Computer software)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Modeling -- Organizational and Social Concepts in Agent Oriented Software Engineering -- Representing Agent Interaction Protocols with Agent UML -- AML: Agent Modeling Language Toward Industry-Grade Agent-Based Modeling -- Formal Semantics for AUML Agent Interaction Protocol Diagrams -- A Study of Some Multi-agent Meta-models -- A Metamodel for Agents, Roles, and Groups -- Design -- Bridging the Gap Between Agent-Oriented Design and Implementation Using MDA -- A Design Process for Adaptive Behavior of Situated Agents -- Evaluation of Agent–Oriented Software Methodologies – Examination of the Gap Between Modeling and Platform -- A Formal Approach to Design and Reuse Agent and Multiagent Models -- An Agent Construction Model for Ubiquitous Computing Devices -- Reuse and Platforms -- A Framework for Patterns in Gaia: A Case-Study with Organisations -- Enacting and Deacting Roles in Agent Programming -- A Platform for Agent Behavior Design and Multi Agent Orchestration -- A Formal Reuse-Based Approach for Interactively Designing Organizations.
Sommario/riassunto	The explosive growth of application areas such as electronic commerce, enterprise resource planning and mobile computing has profoundly

and irreversibly changed our views on software systems. Nowadays, software is to be based on open architectures that continuously change and evolve to accommodate new components and meet new requirements. Software must also operate on different platforms, without recompilation, and with minimal assumptions about its operating environment and its users. Furthermore, software must be robust and ¨ autonomous, capable of serving a naive user with a minimum of overhead and interference. Agent concepts hold great promise for responding to the new realities of software systems. They offer higher-level abstractions and mechanisms which address issues such as knowledge representation and reasoning, communication, coordination, cooperation among heterogeneous and autonomous parties, perception, commitments, goals, beliefs, and intentions, all of which need conceptual modelling. On the one hand, the concrete implementation of these concepts can lead to advanced functionalities, e.g., in inference-based query answering, tra- action control, adaptive workflows, brokering and integration of disparate information sources, and automated communication processes. On the other hand, their rich representational capabilities allow more faithful and flexible treatments of complex organizational processes, leading to more effective requirements analysis and architectural/detailed design.