1. Record Nr. UNINA9910484098903321

Titolo Software engineering for multi-agent systems IV: research issues and

practical applications / / Alessandro Garcia ... [et al.] (eds.)

Pubbl/distr/stampa Berlin, : Springer, c2006

ISBN 3-540-33583-8

Edizione [1st ed. 2006.]

Descrizione fisica 1 online resource (XIV, 255 p.)

Collana Lecture notes in computer science, , 0302-9743;; 3914

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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 Context-Awareness and Coordination -- Policy-Driven Configuration

and Management of Agent Based Distributed Systems -- Views:
Middleware Abstractions for Context-Aware Applications in MANETs -An Adaptive Distributed Layout for Multi-agent Applications -- Selforganizing Approaches for Large-Scale Spray Multiagent Systems -Coordination Artifacts as First-Class Abstractions for MAS Engineering:
State of the Research -- Modeling -- Analysis and Design of Physical

and Social Contexts in Multi-agent Systems -- Engineering

Organization-Based Multiagent Systems -- Developing and Evaluating a Generic Metamodel for MAS Work Products -- Agent Roles, Qua Individuals and the Counting Problem -- Requirements and Software Architecture -- A Product-Line Approach to Promote Asset Reuse in Multi-agent Systems -- Characterization and Evaluation of Multi-agent System Architectural Styles -- Improving Flexibility and Robustness in Agent Interactions: Extending Prometheus with Hermes -- Patterns for Modelling Agent Systems with Tropos -- Dependability -- On the Use of Formal Specifications as Part of Running Programs -- Adaptive Replication of Large-Scale Multi-agent Systems – Towards a Fault-

Tolerant Multi-agent Platform.

Sommario/riassunto With the integration of computing and communication into the very

fabric of our social, economic, and personal existence, the manner in which we think about and build software has become the subject of intense intellectual, scienti?c, and engineering reexamination. New

computing paradigms have been proposed and new software architectures are being examined. The study of multi-agent s- tems (MAS) is one important movement energized by a growing awareness that application development may need to follow radically new paths. Fundamentally, MAS denotes a new software speci?cation and design paradigm. Moreover, when viewed in the context of large-scale deployment, it emerges as the embodiment of the quintessential concerns facing the software engineering community today. As computing and communication permeates the essential aspects of the societal infrastructure, software must become more nimble, slimmer, more natural, and more discrete. Software must integrate itself in an organic way into the activities it serves and the resources it exploits.