Record Nr.	UNINA9910144205603321
Titolo	Engineering Self-Organising Systems : Nature-Inspired Approaches to Software Engineering / / edited by Giovanna Di Marzo Serugendo, Anthony Karageorgos, Omer F. Rana, Franco Zambonelli
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2004
ISBN	1-280-30705-6 9786610307050 3-540-24701-7
Edizione	[1st ed. 2004.]
Descrizione fisica	1 online resource (IV, 304 p.)
Collana	Lecture Notes in Artificial Intelligence ; ; 2977
Disciplina	005.1
Soggetti	Software engineering Artificial intelligence Computer networks Computers Software Engineering/Programming and Operating Systems Artificial Intelligence Computer Communication Networks Software Engineering Computation by Abstract Devices
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 at the end of each chapters and index.
Nota di contenuto	Applications Self-Organisation: Paradigms and Applications Self- Organizing MANET Management Toward the Application of Self Organizing Systems to Agent Infrastructures – A Critical Review and Prospects Natural Metaphors A Catalog of Biologically-Inspired Primitives for Engineering Self-Organization Nature-Inspired Self- Organisation in Wireless Communications Networks Designing Self- Assembly for 2-Dimensional Building Blocks Strategies for the Increased Robustness of Ant-Based Clustering Self-Organising in Multi-agent Coordination and Control Using Stigmergy Managing Computer Networks Security through Self-Organization: A Complex

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	System Perspective A Holonic Self-Organization Approach to the Design of Emergent e-Logistics Infrastructures An Evolutionary Approach for Studying Heterogeneous Strategies in Electronic Markets Artificial Interaction Mechanisms Self-Organizing Agents for Mechanical Design Can Tags Build Working Systems? From MABS to ESOA Self-Organizing Referral Networks: A Process View of Trust and Authority Middleware Adaptiveness in Linda-Based Coordination Models Self-Organization in Multi Agent Systems: A Middleware Approach Methods and Tools Providing Effective Access to Shared Resources: A COIN Approach A Modular Paradigm for Building Self-Organizing Peer-to-Peer Applications Tools for Self-Organizing Applications Engineering.
Sommario/riassunto	As information handling systems get more and more complex, it becomes increasingly difficult to manage them using traditional approaches based on centralized and pre-defined control mechanisms. Over recent years, there has been a significant increase in taking inspiration from biology, the physical world, chemistry, and social systems to more efficiently manage such systems - generally based on the concept of self-organisation; this gave rise to self-organising applications. This book constitutes a reference and starting point for establishing the field of engineering self-organising applications. It comprises revised and extended papers presented at the Engineering Self-Organising Applications Workshop, ESOA 2003, held at AAMAS 2003 in Melbourne, Australia, in July 2003 and selected invited papers from leading researchers in self-organisation. The book is organized in parts on applications, natural metaphors (multi-cells and genetic algorithms, stigmergy, and atoms and evolution), artificial interaction mechanisms, middleware, and methods and tools.