

1. Record Nr.	UNINA9910741142003321
Titolo	Advances in applied self-organizing systems / / Mikhail Prokopenko, editor
Pubbl/distr/stampa	London ; ; New York, : Springer, c2013
ISBN	1-4471-5113-5
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (425 p.)
Collana	Advanced information and knowledge processing
Altri autori (Persone)	ProkopenkoMikhail
Disciplina	003.7
Soggetti	Self-organizing systems Self-organizing systems - Data processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface -- Part I – Introduction -- Design versus Self-Organization -- Foundations and Formalizations of Self-Organization -- Part II – Distributed Management and Control -- Self-Organizing Traffic Lights: A Realistic Simulation -- Self-Organizing Sensing of Structures: Monitoring a Space Vehicle Thermal Protection System -- Decentralized Decision Making for Ad-hoc Multi-Agent Systems -- Learning Mutation Strategies for Evaluation and Adaptation of a Simulated Snakebot -- Self-Organization as Phase Transition in Decentralized Groups of Robots: A Study Based on Boltzmann Entropy -- Distributed Control of Microscopic Robots in Biomedical Applications -- Part III – Self-Organizing Computation -- Self-Organizing Computing Systems: Songline Processors -- Self-Organizing Nomadic Services in Grids -- Immune System Support for Scheduling -- Formal Immune Networks: Self-Organization and Real-World Applications -- A Model for Self-Organizing Data Visualization using Decentralized Multi-Agent Systems -- Memristive Excitable Automata: Structural Dynamics, Phenomenology, Localizations and Conductive Pathways -- Part IV – Discussion -- A Turing Test for Emergence -- Index.
Sommario/riassunto	How do we design a self-organizing system? Is it possible to validate and control non-deterministic dynamics? What is the right balance between the emergent patterns that bring robustness, adaptability and scalability, and the traditional need for verification and validation of the outcomes? The last several decades have seen much progress from

original ideas of “emergent functionality” and “design for emergence”, to sophisticated mathematical formalisms of “guided self-organization”. And yet the main challenge remains, attracting the best scientific and engineering expertise to this elusive problem. This book presents state-of-the-practice of successfully engineered self-organizing systems, and examines ways to balance design and self-organization in the context of applications. As demonstrated in this second edition of *Advances in Applied Self-Organizing Systems*, finding this balance helps to deal with practical challenges as diverse as navigation of microscopic robots within blood vessels, self-monitoring aerospace vehicles, collective and modular robotics adapted for autonomous reconnaissance and surveillance, self-managing grids and multiprocessor scheduling, data visualization and self-modifying digital and analog circuitry, intrusion detection in computer networks, reconstruction of hydro-physical fields, traffic management, immunocomputing and nature-inspired computation. Many algorithms proposed and discussed in this volume are biologically inspired, and the reader will also gain an insight into cellular automata, genetic algorithms, artificial immune systems, snake-like locomotion, ant foraging, birds flocking, neuromorphic circuits, amongst others. Demonstrating the practical relevance and applicability of self-organization, *Advances in Applied Self-Organizing Systems* will be an invaluable tool for advanced students and researchers in a wide range of fields.

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2. Record Nr.	UNINA9910131766003321
Autore	Jaime Preciado Coronado Alberto Rocha Valencia (dir.)
Titolo	América Latina : realidad, virtualidad y utopía de la integración
Pubbl/distr/stampa	Centro de estudios mexicanos y centroamericanos, 2003 [Place of publication not identified], : Centro de estudios mexicanos y centroamericanos Universidad de Guadalajara Universidad Nacional Aut, 2003
ISBN	2-8218-2816-0 2-8218-1954-4
Descrizione fisica	1 online resource (240 pages)
Collana	Geografia, Sociologia y Ciencias Politicas
Soggetti	Business & Economics Economic History Latin America Economic integration
Lingua di pubblicazione	Spagnolo
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Sommario/riassunto	A inicios de la década de los noventa hemos visto surgir un nuevo sistema mundial capitalista, el cual ha esbozado, paulatinamente, sus rasgos carcterísticos de formación hasta revelarnos con mayor nitidez sus tres dinámicas principales : mundialización, continentalización y regionalización. Desde entonces en América Latina y el Caribe, así como en todo el mundo, se han planteado igualmente tres preguntas básicas : ¿cómo integrarse favorablemente en el sistema mundial naciente es recomendable una adecuada forma de integración continental ? ¿ la integración regional o subregional a nivel supracion al es una vía prometedora para alcanzar mayores niveles de desarrollo económico ? Este texto representa la búsqueda de respuestas a los retos anteriores, ubicando los matices de virtualidad y utopía generados por las, dinámicas del nuevo sistema mundial en el subcontinente. Virtualidad por el fruto actual de los esfuerzos de integración emprendidos por nuestros países, pero cuyas expectativas están abiertas hacia nuevas formas de organización. Utopía por las proposiciones de cooperación para reforzar nuestras identidades

cuturales. Este libro es así un esbozo de las perspectivas que América Latina y el Caribe tienen de cara al siglo XXI.

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