

1. Record Nr.	UNINA9910455076103321
Autore	Rowlands Mark
Titolo	The body in mind : understanding cognitive processes // Mark Rowlands [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 1999
ISBN	1-107-11754-2 0-521-04979-2 1-280-42070-7 0-511-03308-7 0-511-17214-1 0-511-15019-9 0-511-31005-6 0-511-58326-5 0-511-04831-9
Descrizione fisica	1 online resource (x, 270 pages) : digital, PDF file(s)
Collana	Cambridge studies in philosophy
Disciplina	128/.2
Soggetti	Philosophy of mind Mind and body Cognition Externalism (Philosophy of mind)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references (p. 258-266) and index.
Nota di contenuto	Preliminaries; Contents; Preface; 1 Introduction: 'A picture held us captive'; 2 Introduction to Part I: 'Don't work hard,work smart'; 3 Environmentalism and what it is not; 4 Environmentalism and evolution; 5 Perception; 6 Memory; 7 Thought; 8 Language; 9 Introduction to Part II: the need for and the place of a theory of representation; 10 Two theories of representation; 11 Environmentalism and teleological semantics; References; Index
Sommario/riassunto	In this book, Mark Rowlands challenges the Cartesian view of the mind as a self-contained monadic entity, and offers in its place a radical externalist or environmentalist model of cognitive processes. Cognition is not something done exclusively in the head, but fundamentally

something done in the world. Drawing on both evolutionary theory and a detailed examination of the processes involved in perception, memory, thought and language use, Rowlands argues that cognition is, in part, a process whereby creatures manipulate and exploit relevant objects in their environment. It is not simply an internal process of information processing; equally significantly, it is an external process of information processing. This innovative book provides a foundation for an unorthodox but increasingly popular view of the nature of cognition.

2. Record Nr.	UNINA9910437823103321
Autore	Niazi Muaz A
Titolo	Cognitive agent-based computing-I : a unified framework for modeling complex adaptive systems using agent-based & complex network-based methods // Muaz A. Niazi, Amir Hussain
Pubbl/distr/stampa	New York, : Springer, 2013
ISBN	1-283-74213-6 94-007-3852-8
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (65 p.)
Collana	SpringerBriefs in cognitive computation, , 2212-6023
Altri autori (Persone)	HussainA (Amir)
Disciplina	006.3
Soggetti	Social systems - Mathematical models Social sciences - Mathematical models
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	Cognitive Agent-basedComputing-I; Acknowledgments; Contents; Acronyms; Abstract; 1 Introduction; 1.1...About the AgentAgent Concept; 1.2...A Framework for Complex Adaptive Systems; 1.3... Modeling CASCAS; 1.4...Motivation; 1.5...Aims and Objectives; 1.6... Overview of the Briefs; References; 2 A Unified Framework; 2.1... Overview of the Proposed Framework; 2.2...Proposed Framework Levels Formulated in Terms of CASCAS Study Objectives; 2.3...Proposed Framework Levels Formulated in Relation to Available Data Types; 2.4... Overview of the Rest of the Parts; 2.4.1 Overview of Case Studies; 2.4.2 Outline of the Briefs

References3 Complex Adaptive Systems; 3.1...Overview; 3.2...Complex Adaptive Systems (CASCAS); 3.2.1 The Seven Basics of CASCAS; 3.2.2 Emergence; 3.3...Examples of CASCAS; 3.3.1 Natural CASCAS Example 1: CAS in Plants; 3.3.2 Natural CASCAS Example 2: CAS in Social Systems; 3.3.3 Artificial CASCAS Example 1: Complex Adaptive Communication Networks; 3.3.4 Artificial CASCAS Example 2: Simulation of Flocking Boids; References; 4 Modeling CASCAS; 4.1... AgentAgent-based Modeling and Agent-based Computing; 4.1.1 AgentAgent-oriented ProgrammingAgentAgent-Oriented Programming 4.1.2 Multi-agentagent Oriented Programming4.1.3 AgentAgent-based or Massively Multiagent-based Modeling; 4.1.4 Benefits of AgentAgent-based Thinking; 4.2...A Review of an AgentAgent-based Tool; 4.2.1 NetLogo Simulation: An Overview; 4.2.1.1 Overview of NetLogo for Modeling Complex Interaction ProtocolsOverview of NetLogo for Modeling Complex Interaction Protocols; 4.2.1.2 Capabilities in Handling a Range of Input Values; 4.2.1.3 Range of Statistics and Complex Metrics; 4.3... Verification and Validation of SimulationSimulation Models; 4.3.1 Overview; 4.3.2 Verification and Validation of ABMs 4.3.3 Related Work on V&V of ABMABM4.4...Overview of Communication Network Simulators; 4.4.1 Simulation of WSNs; 4.4.2 Simulation of P2P Networks; 4.4.3 Simulation of Robotic Swarms; 4.4.4 ABMABM for Complex Communication Networks SimulationSimulation; 4.5...Complex Network Modeling; 4.5.1 Complex Network Methods; 4.5.2 Theoretical Basis; 4.5.3 Centralities and Other Quantitative Measures; 4.5.3.1 Clustering Coefficient; 4.5.3.2 Matching Index; 4.5.4 Centrality Measures; 4.5.4.1 Degree Centrality; 4.5.4.2 Eccentricity Centrality; 4.5.4.3 Closeness Centrality 4.5.4.4 Shortest Path Betweenness Centrality4.5.5 Software Tools for Complex NetworksComplex Networks; 4.6...Conclusions; References; Index

Sommario/riassunto

Complex Systems are made up of numerous interacting sub-components. Non-linear interactions of these components or agents give rise to emergent behavior observable at the global scale. Agent-based modeling and simulation is a proven paradigm which has previously been used for effective computational modeling of complex systems in various domains. Because of its popular use across different scientific domains, research in agent-based modeling has primarily been vertical in nature. The goal of this book is to provide a single hands-on guide to developing cognitive agent-based models for the exploration of emergence across various types of complex systems. We present practical ideas and examples for researchers and practitioners for the building of agent-based models using a horizontal approach - applications are demonstrated in a number of exciting domains as diverse as wireless sensors networks, peer-to-peer networks, complex social systems, research networks and epidemiological HIV.
