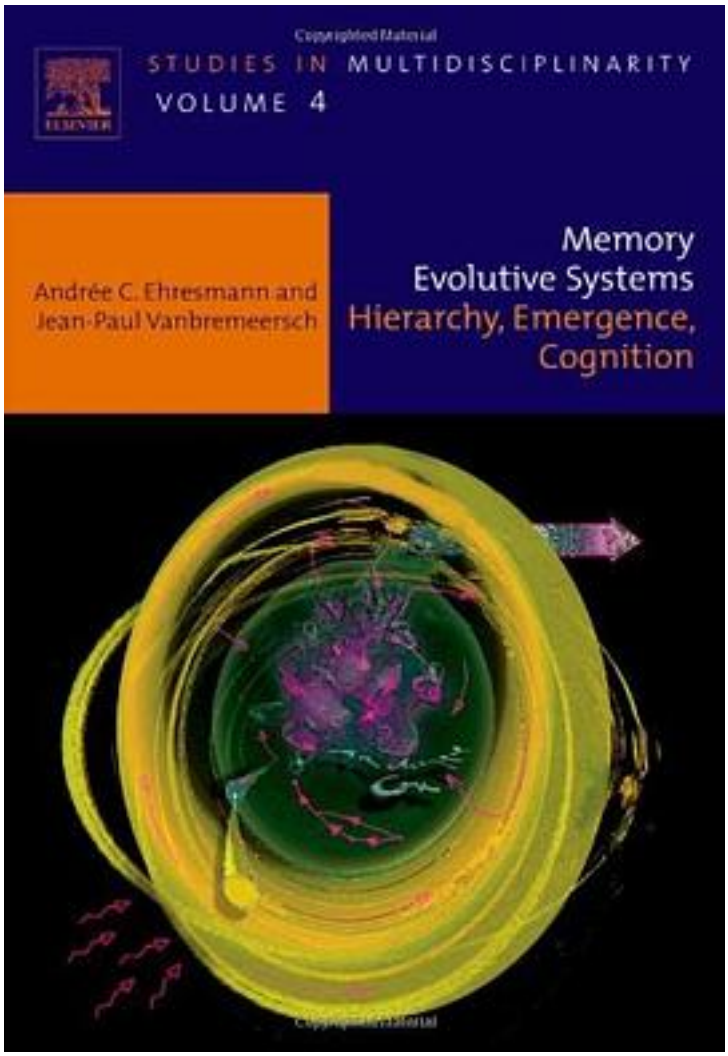
Memory Evolutive Systems; Hierarchy, Emergence, Cognition, Volume 4



Memory Evolutive Systems; Hierarchy, Emergence, Cognition, Volume 4_下载链接1_

著者:A C Ehresmann

出版者:Elsevier Science

出版时间:2007-7-25

装帧:Hardcover

isbn:9780444522443

The theory of Memory Evolutive Systems represents a mathematical model for natural open self-organizing systems, such as biological, sociological or neural systems. In these systems, the dynamics are modulated by the cooperative and/or competitive interactions between the global system and a net of internal Centers of Regulation (CR) with a differential access to a central hierarchical Memory. The MES proposes a mathematical model for autonomous evolutionary systems and is based on the Category Theory of mathematics. It provides a framework to study and possibly simulate the structure of 'living systems' and their dynamic behavior. MES explores what characterizes a complex evolutionary system, what distinguishes it from inanimate physical systems, its functioning and evolution in time, from its birth to its death. The behavior of this type of system depends heavily on its former experiences, and a model representing the system over a period of time, could anticipate later behavior and perhaps even predict some evolutionary alternatives. The role of the MES model will be two-fold: theoretical, for a comprehension of a fundamental nature and practical, for applications in biology, medicine, sociology, ecology, economy, meteorology, and other sciences. This book provides comprehensive and comprehensible coverage of Memory Evolutive System. It is written by the developers of the Memory Evolutive Systems. It is designed to explore the common language between sciences.

作者介绍:

目录:

标签

脑科学

数学

神经科学

评论

Memory Evolutive Systems; Hierarchy, Emergence, Cognition, Volume 4_下载链接1_

书评

Memory Evolutive Systems; Hierarchy, Emergence, Cognition, Volume 4_下载链接1_