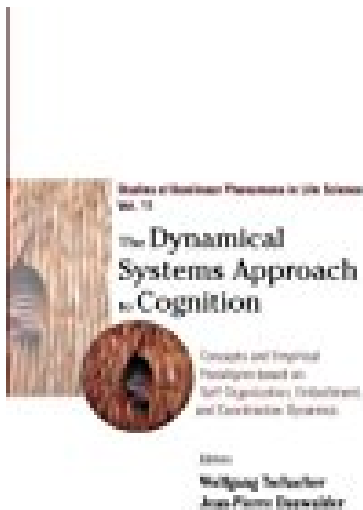


Dynamical Systems Approach to Cognition The Concepts and Empirical Paradigms Based on Self-Organization Embodiment and Coordination Dynamics Studies of Nonlinear Phenomena in Life Science



BOOK DETAILS

- Author : Jean-Pierre Dauwalder
- Pages : 344 Pages
- Publisher : World Scientific Publishing Company
- Language : English
- ISBN : 9812386106

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BOOK SYNOPSIS

The shared platform of the articles collected in this volume is used to advocate a dynamical systems approach to cognition. It is argued that recent developments in cognitive science towards an account of embodiment, together with the general approach of complexity theory and dynamics, have a major impact on behavioral and cognitive science. The book points out that there are two domains that follow naturally from the stance of embodiment: first, coordination dynamics is an established empirical paradigm that is best able to aid the approach; second, the obvious goal-directedness of intelligent action (i.e., intentionality) is nicely addressed in the framework of the dynamical synergetic approach.

Contents: Intelligent Behavior: A Synergetic View (H Haken) Grounded in the World: Developmental Origins of the Embodied Mind (E Thelen) Cognitive Coordination Dynamics (S Kelso) What is Coordinated in Bimanual Coordination? (F Mechsner & W Prinz) Cognition in Action: The Interplay of Attention and Bimanual Coordination Dynamics (J J Temprado) A Synergetic Approach to Describe the Stability and Variability of Motor Behavior (K Witte et al.) The Role of Synchronization in Perception-Action (T-C Chan et al.) A Mean-Field Approach to Self-Organization in Spatially Extended Perception-Action and Psychological Systems (T Frank & P J Beek) Self-Organizing Systems Show Apparent Intentionality (W Tschacher et al.) The Embodiment of Intentionality (S Jordan) Cognitive Science, Representations and Dynamical Systems Theory (P Haselager) Self-Steered Self-Organization (F Keijzer) Brain Dynamics: Methodological Issues and Applications in Psychiatric and Neurologic Diseases (L Fezard) SIRN (Synergetic Inter-Representation Networks), Artifacts and Snows Two Cultures (J Portugali) Dynamical Systems Theory: Application to Pedagogy (J Abraham) Readership: Psychologists, cognitive scientists, computer scientists, biologists and philosophers. Keywords: Cognitive Science; Consciousness; Dynamical Systems Theory; Self-Organization; Philosophy of Mind; Motor Coordination

DYNAMICAL SYSTEMS APPROACH TO COGNITION THE CONCEPTS AND EMPIRICAL PARADIGMS BASED ON SELF-ORGANIZATION EMBODIMENT AND COORDINATION DYNAMICS STUDIES OF NONLINEAR PHENOMENA IN LIFE SCIENCE - Are you looking for Ebook Dynamical Systems Approach To Cognition The Concepts And Empirical Paradigms Based On Self-Organization Embodiment And Coordination Dynamics Studies Of Nonlinear Phenomena In Life Science ? You will be glad to know that right now Dynamical Systems Approach To Cognition The Concepts And Empirical Paradigms Based On Self-Organization Embodiment And Coordination Dynamics Studies Of Nonlinear Phenomena In Life Science is available on our online library. With our online resources, you can find Applied Numerical Methods With Matlab Solution Manual 3rd Edition or just about any type of ebooks, for any type of product.

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