

<<Biologically Inspire>>

图书基本信息

书名：<<Biologically Inspired Approaches to Advanced Information Technology生物学启发的高级信息技术方法/会议文集>>

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内容概要

This book constitutes the thoroughly refereed post-proceedings of the First International Workshop on Biologically Inspired Approaches to Advanced Information Technology, BioADIT 2004, held in Lausanne, Switzerland in January 2004. The 36 full papers presented together with an introductory overview have gone through two rounds of reviewing and revision; they were selected and are arranged in a way ensuring systematic coverage of important bio-inspired approaches in computing. The papers are organized in sections on biosystems for IT evolution, bio-inspired software systems, hardware systems, robotics, bio-inspired distributed and parallel processing, bio-inspired networking, image processing, and other topics.

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书籍目录

1. Biosystems for IT Evolution Object-Oriented Specification of Complex Bio-computing Processes: A Case Study of a Network of Proteolytic Enzymes Analysis of Responses of Complex Bionetworks to Changes in Environmental Conditions Experimental Molecular Evolution Showing Flexibility of Fitness Leading to Coexistence and Diversification in Biological System Echo State Networks and Self-Prediction Learning Bayesian Networks by Lamarckian Genetic Algorithm and Its Application to Yeast Cell-Cycle Gene Network Reconstruction from Time-Series Microarray Data Towards Cortex Sized Attractor ANN2. Bio-inspired Software Systems Biologically Inspired Reinforcement Learning: Reward-Based Decomposition for Multi-goal Environments Dynamic Self-Assembly and Computation: From Biological to Information Systems Implementation and Evaluation of a System to Support Human Relationship Formation in Networked Virtual Space Biologically Plausible Speech Recognition with LSTM Neural Nets Spatial Tangible User Interfaces for Cognitive Assessment and Training Biologically Inspired Computer Virus Detection System Explaining Low-Level Brightness-Contrast Illusions Using Disinhibition Autonomous Acquisition of the Meaning of Sensory States Through Sensory-Invariance Driven Action3. Hardware Systems Characterizing the Firing Properties of an Adaptive Analog VLSI Neuron Embryonic Machines That Divide and Differentiate Artificial Cellular Division by Self-Inspection A Hardware Implementation of a Network of Functional Spiking Neurons with Hebbian Learning Andrds Upegui, Carlos Andrds Peda-Reyes, Eduardo Sdnchez4. Robotics A Study on Designing Robot Controllers by Using Reinforcement Learning with Evolutionary State Recruitment Strategy Movement Generation and Control with Generic Neural Microcircuits Efficiency and Task Allocation in Prey Retrieval Anatomy and Physiology of an Artificial Vision Matrix5. Bio-inspired Distributed/Parallel Processing6. Bio-inspired Networking7. Image Processing8. Other TopicsAuthor Index

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