

<<Advances in Artificial Life>>

图书基本信息

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内容概要

This book constitutes the refereed proceedings of the 8th European Conference on Artificial Life, ECAL 2005, held in Canterbury, UK in September 2005. The 74 revised full papers presented were carefully reviewed and selected from more than 150 submissions. The papers are organized in topical sections on conceptual articles, morphogenesis and development, robotics and autonomous agents, evolutionary computation and theory, cellular automata, models of biological systems and their applications, ant colony and swarm systems, evolution of communication, simulation of social interactions, self-replication, artificial chemistry, and posters.

<<Advances in Artificial Intelligence>>

书籍目录

Conceptual Track Effect of Synthetic Emotions on Agents' Learning Speed and Their Survivability From the Inside Looking Out: Self Extinguishing Perceptual Cues and the Constructed Worlds of Animats Globular Universe and Autopoietic Automata: A Framework for Artificial Life May Embodiment Cause Hyper-Computation? Perception as a Dynamical Sensori-Motor Attraction Basin Toward Genuine Continuity of Life and Mind Morphogenesis and Development Biological Development of Cell Patterns: Characterizing the Space of Cell Chemistry Genetic Regulatory Networks A Coarse-Coding Framework for a Gene-Regulatory-Based Artificial Neural Tissue A Computational Model of Cellular Morphogenesis in Plants A Developmental Model for Generative Media Evolutionary Simulations of Maternal Effects in Artificial Developmental Systems METAMorph: Experimenting with Genetic Regulatory Networks for Artificial Development Morphological Plasticity: Environmentally Driven Morphogenesis A Self-organising, Self-adaptable Cellular System Self-repair Ability of a Toroidal and Non-toroidal Cellular Developmental Model Simulating Evolution with a Computational Model of Embryogeny: Obtaining Robustness from Evolved Individuals Topology Changes Enable Reaction-Diffusion to Generate Forms Robotics and Autonomous Agents Aggregation Behaviour as a Source of Collective Decision in a Group of Cockroach-Like-Robots (Co)Evolution of (De)Centralized Neural Control for a Gravitationally Driven Machine Co-evolution of Structures and Controllers for Neobot Underwater Modular Robots CoEvolutionary Incremental Modelling of Robotic Cognitive Mechanisms Evolutionary Computation and Theory Cellular Automata Models of Biological Systems and Their Applications Ant Colony and Swarm Systems Evolution of Communication Simulation of Social Interactions Self-replication Artificial Chemistry Posters Author Index

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