

《Applications of Evol》

图书基本信息

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内容概要

This book constitutes the joint refereed proceedings of six workshops on evolutionary computing, EvoWorkshops 2004, held together with EuroGP 2004 and EvoCOP 2004 in Coimbra, Portugal, in April 2004. The 55 revised full papers presented were carefully reviewed and selected from a total of 123 submissions. In accordance with the six workshops covered, the papers are organized in topical sections on evolutionary bioinformatics; evolutionary computing in communications, networks, and connected systems; hardware optimization techniques; evolutionary computing in image analysis and signal processing; evolutionary music and art; and evolutionary algorithms in stochastic and dynamic environments.

书籍目录

EvoBIO Contributions A Memetic Algorithm for Protein Structure Prediction in a 3D-Lattice HP Model An Improved Genetic Algorithm for the Sequencing by Hybridization Problem Evolutionary Search of Thresholds for Robust Feature Set Selection: Application to the Analysis of Microarray Data Evolving Regular Expression-Based Sequence Classifiers for Protein Nuclear Localisation Analysis of Proteomic Pattern Data for Cancer Detection Self-Adaptive Scoutin-Autonomous Experimentation for Systems Biology An Improved Grammatical Evolution Strategy for Hierarchical Petri Net Modeling of Complex Genetic Systems Two-Step Genetic Programming for Optimization of RNA Common-Structure Evolutionary Algorithms for Optimal Control in Fed-Batch Fermentation Processes Discrete Branch Length Representations for Genetic Algorithms in Phylogenetic Search Iteratively Inferring Gene Regulatory Networks with Virtual Knockout Experiments Multiple Sequence Alignment Using SAGA: Investigating the Effects of Operator Scheduling, Population Seeding and Crossover Operators Constructing Microbial Consortia with Minimal Growth Using a Genetic Algorithm EvoCOMNET Contributions 2-Objective Optimization of Cells Overlap and Geometry with Evolutionary Algorithms A Genetic Algorithm for Telecommunication Network Design A GA/Heuristic Hybrid Technique for Routing and Wavelength Assignment in WDM Networks Ant Colony Optimization Paths Problem for the Maximum Edge-Disjoint Using Genetic Programming to Design Broadcasting Algorithms for Manhattan Street Networks A Scenario-Based Approach to Protocol Design Using Evolutionary Techniques EvoHOT Contributions A Slicing Structure Representation for the Multi-layer Floorplan Layout Problem Disjoint Sum of Product Minimization by Evolutionary Algorithms EvoIASP Contributions EvoMUSART Contributions EvoSOC Contributions Author Index

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