

Genetic and Evolutionary Computation Conference 2009 And the Winners are...

Ant Colony Optimization and Swarm Intelligence

Parallel Shared Memory Strategies for Ant-Based Optimization Algorithms

Thang N Bui, ThanhVu Nguyen, Joseph R Rizzo Jr.

Artificial Life, Evolutionary Robotics, Adaptive Behavior, Evolvable Hardware

How Novelty Search Escapes the Deceptive Trap of Learning to Learn

Sebastian Risi, Sandy D Vanderbleek, Charles E Hughes, Kenneth O Stanley

Bioinformatics and Computational Biology

Modeling Evolutionary Fitness for DNA Motif Discovery

Sven Rahmann, Tobias Marschall, Frank Behler, Oliver Kramer

Combinatorial Optimization and Metaheuristics

Fixed-Parameter Evolutionary Algorithms and the Vertex Cover Problem

Stefan Kratsch, Frank Neumann

Estimation of Distribution Algorithms

EDA-RL: Estimation of Distribution Algorithms for ReinforcementLearning Problems

Hisashi Handa

Approximating the Search Distribution to the Selection Distribution in EDAs

S. Ivvan Valdez-Peña, Arturo Hernández-Aguirre, Salvador Botello-Rionda Tony E Lewis, George D Magoulas

Evolution Strategies and Evolutionary Programming

Efficient Natural Evolution Strategies

Yi Sun, Daan Wierstra, Tom Schaul, Juergen Schmidhuber

Evolutionary Multiobjective Optimization

Multiplicative Approximations and the Hypervolume Indicator

Tobias Friedrich, Christian Horoba, Frank Neumann

Generative and Developmental Systems

The Sensitivity of HyperNEAT to Different Geometric Representations of a Problem

Jeff Clune, Charles Ofria, Robert T Pennock



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Genetic Algorithms

Tunneling Between Optima: Partition Crossover for the Traveling Salesman Problem Darrell Whitley, Adele Howe, Doug Hains

Genetic Programming

A Genetic Programming Approach to Automated Software Repair

Stephanie Forrest, ThanhVu Nguyen, Westley Weimer, Claire Le Goues

Genetics-Based Machine Learning

Learning Sensorimotor Control Structures with XCSF

Martin V. Butz, Gerulf K.M. Pedersen, Patrick O. Stalph

New Entropy Model for Extraction of Structural Information from XCS Population

WonKyung Park, Jae C. Oh

Parallel Evolutionary Systems

Strategies to Minimise the Total Run Time of Cyclic Graph Based Genetic Programming with GPUs

Tony E Lewis, George D Magoulas

Real World Application

Optimizing Low-Discrepancy Sequences with an Evolutionary Algorithm

François-Michel De Rainville, Christian Gagné, Olivier Teytaud, Denis Laurendeau

Search-Based Software Engineering

Software Project Planning for Robustness and Completion Time in the Presence of Uncertainty using Multi Objective Search Based Software Engineering

Stefan Gueorguiev, Mark Harman, Giuliano Antoniol

Theory

Dynamic Evolutionary Optimisation: An Analysis of Frequency and Magnitude of Change

Philipp Rohlfshagen, Per Kristian Lehre, Xin Yao