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Titolo	Simulated Evolution and Learning [[electronic resource] ] : 9th International Conference, SEAL 2012, Hanoi, Vietnam, December 16-19, 2012, Proceedings // edited by Lam Thu Bui, Yew Soon Ong, Nguyen Xuan Hoai, Hisao Ishibuchi, Ponnuthurai Nagarathnam Suganthan
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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 7673
Disciplina	003.3
Soggetti	Computer science Artificial intelligence Data mining Computer simulation Computer science—Mathematics Discrete mathematics Application software Theory of Computation Artificial Intelligence Data Mining and Knowledge Discovery Computer Modelling Discrete Mathematics in Computer Science Computer and Information Systems Applications
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	The Influence of the Number of Initial Feasible Solutions on the Performance of an Evolutionary Optimization Algorithm -- Concurrent Differential Evolution Based on Generational Model for Multi-core CPUs -- Figure of Merit Based Fitness Functions in Genetic Programming for Edge Detection -- An Evolutionary Algorithm for the Over-constrained Airport Baggage Sorting Station Assignment Problem -- HEMH2: An

Improved Hybrid Evolutionary Metaheuristics for 0/1 Multiobjective Knapsack Problems Guided Reproduction in Differential Evolution -- A Study of Breakout Local Search for the Minimum Sum Coloring Problem -- XCS with Adaptive Action Mapping -- DEAL: A Direction-Guided Evolutionary Algorithm -- Using Hybrid Dependency Identification with a Memetic Algorithm for Large Scale Optimization Problems -- Evolution of Intrinsic Motives in Multi-agent Simulations -- A Hybrid Particle Swarm Optimization Approach to Bernoulli Mixture Models -- An Agent-Based Model for Simulation of Traffic Network Status -- Self-Adaptive Particle Swarm Optimization -- Evaporation Mechanisms for Particle Swarm Optimization -- The Performance and Sensitivity of the Parameters Setting on the Best-so-far ABC -- Incremental Spatial Clustering in Data Mining Using Genetic Algorithm and R-Tree -- Personalized Email Recommender System Based on User Actions -- Emergent Self Organizing Maps for Text Cluster Visualization by Incorporating Ontology Based Descriptors -- Online Handwriting Recognition Using Multi Convolution Neural Networks -- Automatic Discovery of Optimisation Search Heuristics for Two Dimensional Strip Packing Using Genetic Programming -- Solving Graph Coloring Problem by Fuzzy Clustering-Based Genetic Algorithm -- Efficient Neuroevolution for a Quadruped Robot -- Learning and Generating Folk Melodies Using MPF-Inspired Hierarchical Self-Organising Maps -- Multi Objective Learning Classifier Systems Based Hyperheuristics for Modularised Fleet Mix Problem -- Where Should We Stop? An Investigation on Early Stopping for GP Learning -- From Subjective to Objective Metrics for Evolutionary Story Narration Using Event Permutations -- Learning Rule for TSK Fuzzy Logic Systems Using Interval Type-2 Fuzzy Subtractive Clustering -- Constrained Layout Optimization in Satellite Cabin Using a Multiagent Genetic Algorithm -- A Multi-Objective Approach for Master's Thesis Committees Scheduling Using DMEA -- Coupler-Curve Synthesis of a Planar Four-Bar Mechanism Using NSGA-II -- Interactive GA Flock Brush for Non-Photorealistic Rendering -- Generating Diverse Behaviors of Evolutionary Robots with Speciation for Theory of Mind -- Improving Gender Recognition Using Genetic Algorithms.

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### Sommario/riassunto

This volume constitutes the proceedings of the 9th International Conference on Simulated Evolution and Learning, SEAL 2012, held in Hanoi, Vietnam, in December 2012. The 50 full papers presented were carefully reviewed and selected from 91 submissions. The papers are organized in topical sections on evolutionary algorithms, theoretical developments, swarm intelligence, data mining, learning methodologies, and real-world applications.

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