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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 6238
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Soggetti	Bioinformatics Artificial intelligence Computer science Algorithms Pattern recognition systems Computer science—Mathematics Discrete mathematics Computational and Systems Biology Artificial Intelligence Theory of Computation Automated Pattern Recognition Discrete Mathematics in Computer Science
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Theory of Evolutionary Computing (I) -- Optimal Fixed and Adaptive Mutation Rates for the LeadingOnes Problem -- Mirrored Sampling and Sequential Selection for Evolution Strategies -- Optimisation and Generalisation: Footprints in Instance Space -- Adaptive Drift Analysis -- Optimizing Monotone Functions Can Be Difficult -- Log-Linear Convergence of the Scale-Invariant (?? w , ?)-ES and Optimal ? for Intermediate Recombination for Large Population Sizes -- Exploiting Overlap When Searching for Robust Optima -- Benchmarking

Evolutionary Algorithms: Towards Exploratory Landscape Analysis -- One-Point Geometric Crossover -- When Does Dependency Modelling Help? Using a Randomized Landscape Generator to Compare Algorithms in Terms of Problem Structure -- First-Improvement vs. Best-Improvement Local Optima Networks of NK Landscapes -- Differential Mutation Based on Population Covariance Matrix -- General Lower Bounds for the Running Time of Evolutionary Algorithms -- A Binary Encoding Supporting Both Mutation and Recombination -- Towards Analyzing Recombination Operators in Evolutionary Search -- Theory of Evolutionary Computing (II) -- Bidirectional Relation between CMA Evolution Strategies and Natural Evolution Strategies -- A Fine-Grained View of GP Locality with Binary Decision Diagrams as Ant Phenotypes -- Drift Analysis with Tail Bounds -- More Effective Crossover Operators for the All-Pairs Shortest Path Problem -- Comparison-Based Adaptive Strategy Selection with Bandits in Differential Evolution -- Fixed Parameter Evolutionary Algorithms and Maximum Leaf Spanning Trees: A Matter of Mutation -- An Archive Maintenance Scheme for Finding Robust Solutions -- Experimental Supplements to the Theoretical Analysis of Migration in the Island Model -- General Scheme for Analyzing Running Times of Parallel Evolutionary Algorithms -- Negative Drift in Populations -- Log(?) Modifications for Optimal Parallelism -- The Linkage Tree Genetic Algorithm -- An Analysis of the XOR Dynamic Problem Generator Based on the Dynamical System -- The Role of Degenerate Robustness in the Evolvability of Multi-agent Systems in Dynamic Environments -- Machine Learning, Classifier Systems, Image Processing -- Evolutionary Learning of Technical Trading Rules without Data-Mining Bias -- Using Computational Intelligence to Identify Performance Bottlenecks in a Computer System -- Selecting Small Audio Feature Sets in Music Classification by Means of Asymmetric Mutation -- Globally Induced Model Trees: An Evolutionary Approach -- Open-Ended Evolutionary Robotics: An Information Theoretic Approach -- A Novel Similarity-Based Crossover for Artificial Neural Network Evolution -- Indirect Encoding of Neural Networks for Scalable Go -- Comparison-Based Optimizers Need Comparison-Based Surrogates -- A Cooperative Coevolutionary Approach to Partitional Clustering -- Feature Selection for Multi-purpose Predictive Models: A Many-Objective Task -- Incorporating Domain Knowledge into Evolutionary Computing for Discovering Gene-Gene Interaction -- The Application of Pittsburgh-Style Learning Classifier Systems to Address Genetic Heterogeneity and Epistasis in Association Studies -- Threshold Selection, Mitosis and Dual Mutation in Cooperative Co-evolution: Application to Medical 3D Tomography -- Comparative Analysis of Search and Score Metaheuristics for Bayesian Network Structure Learning Using Node Juxtaposition Distributions -- Analyzing the Credit Default Swap Market Using Cartesian Genetic Programming -- Memetic Algorithms, Hybridized Techniques, Meta and Hyperheuristics -- A Memetic Cooperative Optimization Schema and Its Application to the Tool Switching Problem -- Ownership and Trade in Spatial Evolutionary Memetic Games -- A Hyper-Heuristic Approach to Strip Packing Problems -- Asymptotic Analysis of Computational Multi-Agent Systems -- Path-Guided Mutation for Stochastic Pareto Local Search Algorithms -- Scheduling English Football Fixtures over the Holiday Period Using Hyper-heuristics -- Graph Clustering Based Model Building -- How to Choose Solutions for Local Search in Multiobjective Combinatorial Memetic Algorithms -- Secure and Task Abortion Aware GA-Based Hybrid Metaheuristics for Grid Scheduling -- A Memetic Algorithm for the Pickup and Delivery Problem with Time Windows

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Multiobjective Search -- On Expected-Improvement Criteria for Model-
based Multi-objective Optimization -- Parameter Tuning Boosts
Performance of Variation Operators in Multiobjective Optimization.
