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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	A Graph-Based Developmental Swarm Representation and Algorithm -- A Graph-Based Developmental Swarm Representation and Algorithm -- A Modified Particle Swarm Optimization Algorithm for the Best Low Multilinear Rank Approximation of Higher-Order Tensors -- A Robotic Validation of the Attractive Field Model: An Inter-disciplinary Model of

Self-regulatory Social Systems -- A Thermodynamic Approach to the Analysis of Multi-robot Cooperative Localization under Independent Errors -- An Alternative ACO Algorithm for Continuous Optimization Problems -- An Efficient Optimization Method for Revealing Local Optima of Projection Pursuit Indices -- Ant Colony Optimisation for Ligand Docking -- Antbots: A Feasible Visual Emulation of Pheromone Trails for Swarm Robots -- Automatic Configuration of Multi-Objective ACO Algorithms -- Autonomous Morphogenesis in Self-assembling Robots Using IR-Based Sensing and Local Communications -- Autonomous Multi-agent Cycle Based Patrolling -- Biologically Realistic Primitives for Engineered Morphogenesis -- Evaluating the Robustness of Activator-Inhibitor Models for Cluster Head Computation -- Evolution of Self-organised Path Formation in a Swarm of Robots -- Extensions to the Ant-Miner Classification Rule Discovery Algorithm -- Functional Blueprints: An Approach to Modularity in Grown Systems -- Heterogeneous Particle Swarm Optimization -- Modern Continuous Optimization Algorithms for Tuning Real and Integer Algorithm Parameters -- Multi-agent Deployment on a Ring Graph -- Multi-Swarm Optimization for Dynamic Combinatorial Problems: A Case Study on Dynamic Vehicle Routing Problem -- Off-line vs. On-line Tuning: A Study on Ant System for the TSP -- Opinion Dynamics for Decentralized Decision-Making in a Robot Swarm -- Positional Communication and Private Information in Honeybee Foraging Models -- Rank Based Particle Swarm Optimization -- Self-organized Task Partitioning in a Swarm of Robots -- Slime Mold Inspired Path Formation Protocol for Wireless Sensor Networks -- Solving the Multi-dimensional Multi-choice Knapsack Problem with the Help of Ants -- Theoretical Properties of Two ACO Approaches for the Traveling Salesman Problem -- Short Papers -- A Cooperative Network Game Efficiently Solved via an Ant Colony Optimization Approach -- A Deterministic Metaheuristic Approach Using "Logistic Ants" for Combinatorial Optimization -- A Model Based Ant Colony Design for the Protein Engineering Problem -- ACOPHY: A Simple and General Ant Colony Optimization Approach for Phylogenetic Tree Reconstruction -- ACS Searching for D 4t -Hadamard Matrices -- Ant Based Semi-supervised Classification -- Automatic Generation of Optimised Working Time Models in Personnel Planning -- Bee-Sensor: A Step Towards Meta-Routing Strategies in Hybrid Ad Hoc Networks -- Cooperation in a Heterogeneous Robot Swarm through Spatially Targeted Communication -- Early-Stage Diagnosis of Endogenous Diseases by Swarms of Nanobots: An Applicative Scenario -- EDA-PSO: A Hybrid Paradigm Combining Estimation of Distribution Algorithms and Particle Swarm Optimization -- Emergent Flocking with Low-End Swarm Robots -- Exploiting Loose Horizontal Coupling in Evolutionary Swarm Robotics -- Formal Verification of Probabilistic Swarm Behaviours -- Inverse Modeling in Geoenvironmental Engineering Using a Novel Particle Swarm Optimization Algorithm -- Mobile Stigmergic Markers for Navigation in a Heterogeneous Robotic Swarm -- Motif Finding Using Ant Colony Optimization -- Multiple Ant Colony System for Substructure Discovery -- Opportunistic Ant-Based Path Management for Wireless Mesh Networks -- Parallel Ant Colony Optimization Algorithm on a Multi-core Processor -- Particle Swarm Optimization in High Dimensional Spaces -- Particle Swarm Optimization of Bollinger Bands -- Protein Structure Prediction in Lattice Models with Particle Swarm Optimization -- Short and Robust Communication Paths in Dynamic Wireless Networks -- The ACO Encoding -- The Complexity of Grid Coverage by Swarm Robotics -- The Design of an Active Structural Vibration Reduction System Using a Modified Particle Swarm Optimization -- Extended Abstracts -- Ant

Colony Extended: Search in Solution Spaces with a Countably Infinite Number of Solutions -- Automatic Parameter Configuration of Particle Swarm Optimization by Classification of Function Features -- Constructing Low-Cost Swarm Robots That March in Column Formation -- Coordinating Heterogeneous Swarms through Minimal Communication among Homogeneous Sub-swarms -- Effect of Particle Initialization on the Performance of Particle Swarm Niching Algorithms -- Energy Efficient Swarm Deployment for Search in Unknown Environments -- Genetic Encoding of Robot Metamorphosis: How to Evolve a Glider with a Genetic Regulatory Network -- How Ant Systems Can Help in Management of pH for Industrial Wastewater Discharges -- Hybrid Metaheuristic Combining Ant Colony Optimization and H-Method -- Increasing Individual Density Reduces Extra-Variance in Swarm Intelligence -- "Look out!": Socially-Mediated Obstacle Avoidance in Collective Transport -- On Possible Connections between Ant Algorithms and Random Matrix Theory -- Soft Variable Fixing in Path Relinking: An Application to ACO Codes -- Training Randomly Connected, Recurrent Artificial Neural Networks Using PSO.
