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| | | Application software |
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| | Nota di contenuto | A Bearing-only Pattern Formation Algorithm for Swarm Robotics -- A Macroscopic Privacy Model for Heterogeneous Robot Swarms -- A New Continuous Model for Segregation Implemented and Analyzed on Swarm Robots -- A Study of Archiving Strategies in Multi-objective PSO for Molecular Docking -- Ant Colony Optimisation-based Classification using Two-dimensional Polygons -- Collective Perception of Environmental Features in a Robot Swarm -- Communication Diversity in Particle Swarm Optimizers -- Continuous Time Gathering of Agents with Limited Visibility and Bearing-only Sensing -- Design and Analysis of Proximate Mechanisms for Cooperative Transport in Real Robots -- |

Dynamic Task Partitioning for Foraging Robot Swarms -- Human-robot Swarm Interaction with Limited Situational Awareness -- Monotonicity in Ant Colony Classification Algorithms -- Observing the Effects of Overdesign in the Automatic Design of Control Software for Robot Swarms -- Parameter Selection in Particle Swarm Optimisation from Stochastic Stability Analysis -- Population Coding: A New Design Paradigm for Embodied Distributed Systems -- Random Walks in Swarm Robotics: An Experiment with Kilobots -- Synthesizing Rulesets for Programmable Robotic Self-assembly: A Case Study using Floating Miniaturized Robots -- Using Ant Colony Optimization to Build Cluster-based Classification Systems -- A Swarm Intelligence Approach in Undersampling Majority Class -- Optimizing PolyACO Training with GPU-based Parallelization -- Motion Reconstruction of Swarm-like Self-organized Motor Bike Traffic from Public Videos -- On Heterogeneity in Foraging by Ant-like Colony: How Local Affects Global and Vice Versa -- On Stochastic Broadcast Control of Swarms -- Route Assignment for Autonomous Vehicles -- Stealing Items More Efficiently with Ants: A Swarm Intelligence Approach to the Travelling Thief Problem -- Achieving Synchronisation in Swarm Robotics: Applying Networked Q-Learning to Production Line Automata -- Autonomous Task Allocation for Swarm Robotic Systems Using Hierarchical Strategy -- Avoidance Strategies for Particle Swarm Optimisation in Power Generation Scheduling -- Clustering with the ACOR Algorithm -- Consideration Regarding the Reduction of Reality Gap in Evolutionary Swarm Robotics -- Hybrid Deployment Algorithm of Swarm Robots for Wireless Mesh Network -- On the Definition of Self-organizing Systems: Relevance of Positive/Negative Feedback and Fluctuations -- Particle Swarm Optimisation with Diversity Influenced Gradually Increasing Neighbourhoods.

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| Sommario/riassunto | This book constitutes the proceedings of the 10th International Conference on Swarm Intelligence, ANTS 2016, held in Brussels, Belgium, in September 2016. The 18 full papers and 7 short papers presented in this volume were carefully reviewed and selected from 47 submissions. They are devoted to the field of swarm intelligence as a whole, without any bias towards specific research directions. . |