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Nota di contenuto	Adaptive Distance Metrics for Nearest Neighbour Classification Based on Genetic Programming.- Controlling Bloat through Parsimonious Elitist Replacement and Spatial Structure.- Generation of VNS Components with Grammatical Evolution for Vehicle Routing. - Understanding Expansion Order and Phenotypic Connectivity in GE. - PhenoGP: Combining Programs to Avoid Code Disruption.- Reducing Wasted Evaluations in Cartesian Genetic Programming.- Balancing Learning and Overfitting in Genetic Programming with Interleaved Sampling of Training Data.- Automated Design of Probability Distributions as Mutation Operators for Evolutionary Programming Using Genetic Programming.- Robustness and Evolvability of Recombination in Linear Genetic Programming.- On the Evolvability of a Hybrid Ant Colony-Cartesian Genetic Programming Methodology. - Discovering Subgroups by Means of Genetic Programming.- Program

Optimisation with Dependency Injection.- Searching for Novel Classifiers.- Learning Reusable Initial Solutions for Multi-objective Order Acceptance and Scheduling Problems with Genetic Programming. - Automated Problem Decomposition for the Boolean Domain with Genetic Programming.- A Multi-objective Optimization Energy Approach to Predict the Ligand Conformation in a Docking Process. - Semantic Bias in Program Coevolution.- A New Implementation of Geometric Semantic GP and Its Application to Problems in Pharmacokinetics -- A Grammar-Guided Genetic Programming Algorithm for Multi-Label Classification.- Global Top-Scoring Pair Decision Tree for Gene Expression Data Analysis.- Asynchronous Evaluation Based Genetic Programming: Comparison of Asynchronous and Synchronous Evaluation and Its Analysis.- How Early and with How Little Data? Using Genetic Programming to Evolve Endurance Classifiers for MLC NAND Flash Memory.- Examining the Diversity Property of Semantic Similarity Based Crossover. Controlling Bloat through Parsimonious Elitist Replacement and Spatial Structure.- Generation of VNS Components with Grammatical Evolution for Vehicle Routing. - Understanding Expansion Order and Phenotypic Connectivity in GE. - PhenoGP: Combining Programs to Avoid Code Disruption.- Reducing Wasted Evaluations in Cartesian Genetic Programming.- Balancing Learning and Overfitting in Genetic Programming with Interleaved Sampling of Training Data.- Automated Design of Probability Distributions as Mutation Operators for Evolutionary Programming Using Genetic Programming.- Robustness and Evolvability of Recombination in Linear Genetic Programming.- On the Evolvability of a Hybrid Ant Colony-Cartesian Genetic Programming Methodology. - Discovering Subgroups by Means of Genetic Programming.- Program Optimisation with Dependency Injection.- Searching for Novel Classifiers.- Learning Reusable Initial Solutions for Multi-objective Order Acceptance and Scheduling Problems with Genetic Programming. - Automated Problem Decomposition for the Boolean Domain with Genetic Programming.- A Multi-objective Optimization Energy Approach to Predict the Ligand Conformation in a Docking Process. - Semantic Bias in Program Coevolution.- A New Implementation of Geometric Semantic GP and Its Application to Problems in Pharmacokinetics -- A Grammar-Guided Genetic Programming Algorithm for Multi-Label Classification.- Global Top-Scoring Pair Decision Tree for Gene Expression Data Analysis.- Asynchronous Evaluation Based Genetic Programming: Comparison of Asynchronous and Synchronous Evaluation and Its Analysis.- How Early and with How Little Data? Using Genetic Programming to Evolve Endurance Classifiers for MLC NAND Flash Memory.- Examining the Diversity Property of Semantic Similarity Based Crossover.

Sommario/riassunto

This book constitutes the refereed proceedings of the 16th European Conference on Genetic Programming, EuroGP 2013, held in Vienna, Austria, in April 2013 co-located with the Evo* 2013 events, EvoMUSART, EvoCOP, EvoBIO, and EvoApplications. The 18 revised full papers presented together with 5 poster papers were carefully reviewed and selected from 47 submissions. The wide range of topics in this volume reflects the current state of research in the field, including different genres of GP (tree-based, linear, grammar-based, Cartesian), theory, novel operators, and applications.