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Soggetti	Software engineering Artificial intelligence Computer programming Computers Pattern recognition Bioinformatics Computational biology Software Engineering/Programming and Operating Systems Artificial Intelligence Programming Techniques Computation by Abstract Devices Pattern Recognition Computer Appl. in Life Sciences
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Nota di contenuto	A review of theoretical and experimental results on schemata in genetic programming -- Where does the good stuff go, and why? how contextual semantics influences program structure in simple genetic programming -- Fitness causes bloat: Mutation -- Concepts of inductive genetic programming -- Immediate transfer of global improvements to all individuals in a population compared to automatically defined functions for the EVEN-5,6-PARITY problems -- Non-destructive depth-dependent crossover for genetic programming

-- Grammatical evolution: Evolving programs for an arbitrary language
-- Genetic programming bloat with dynamic fitness -- Speech sound discrimination with genetic programming -- Efficient evolution of asymmetric recurrent neural networks using a PDGP-inspired two-dimensional representation -- A cellular-programming approach to pattern classification -- Evolving coupled map lattices for computation
-- Genetic programming for automatic design of self-adaptive robots
-- Genetic modelling of customer retention -- An evolutionary hybrid metaheuristic for solving the vehicle routing problem with heterogeneous fleet -- Building a genetic programming framework: The added-value of design patterns -- Evolutionary computation and the tinkerer's evolving toolbox -- A dynamic lattice to evolve hierarchically shared subroutines.

Sommario/riassunto

This book constitutes the refereed proceedings of the First European Workshop on Genetic Programming, EuroGP'98, held in Paris, France, in April 1998, under the sponsorship of EvoNet, the European Network of Excellence in Evolutionary Computing. The volume presents 12 revised full papers and 10 short presentations carefully selected for inclusion in the book. The papers are organized in topical sections on experimental and theoretical studies; algorithms, representations and operators; and applications.
