Record Nr.	UNISA996465850403316
Titolo	Genetic Programming [[electronic resource]] : European Conference, EuroGP 2000 Edinburgh, Scotland, UK, April 15-16, 2000 Proceedings / / edited by Riccardo Poli, Wolfgang Banzhaf, William B. Langdon, Julian F. Miller, Peter Nordin, Terence C. Fogarty
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2000
ISBN	3-540-46239-2
Edizione	[1st ed. 2000.]
Descrizione fisica	1 online resource (X, 361 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 1802
Disciplina	006.3/1
Soggetti	Artificial intelligence
	Medicine
	Computer programming
	Computers
	Pattern recognition
	Bioinformatics
	Computational biology
	Artificial Intelligence
	Medicine/Public Health, general
	Programming Techniques
	Computation by Abstract Devices Pattern Recognition
	Computer Appl. in Life Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references at the end of each chapters and
nota ul bibliografia	index.
Nota di contenuto	Talks On the Impact of the Representation on Fitness Landscapes The Legion System: A Novel Approach to Evolving Heterogeneity for Collective Problem Solving Metric Based Evolutionary Algorithms Register Based Genetic Programming on FPGA Computing Platforms An Extrinsic Function-Level Evolvable Hardware Approach Genetic Programming, Ensemble Methods and the Bias/Variance Tradeoff –

Introductory Investigations -- Evolution of a Controller with a Free Variable Using Genetic Programming -- Genetic Programming for Service Creation in Intelligent Networks -- Cartesian Genetic Programming -- Some Probabilistic Modelling Ideas for Boolean Classification in Genetic Programming -- Crossover in Grammatical Evolution: A Smooth Operator? -- Hyperschema Theory for GP with One-Point Crossover, Building Blocks, and Some New Results in GA Theory -- Use of Genetic Programming in the Identification of Rational Model Structures -- Grammatical Retina Description with Enhanced Methods -- Posters -- Intraspecific Evolution of Learning by Genetic Programming -- An Evolutionary Approach to Multiperiod Asset Allocation -- Acquiring Textual Relations Automatically on the Web Using Genetic Programming -- Application of Genetic Programming to Induction of Linear Classification Trees -- A Metric for Genetic Programs and Fitness Sharing -- Using Factorial Experiments to Evaluate the Effect of Genetic Programming Parameters -- Experimental Study of Multipopulation Parallel Genetic Programming -- Genetic Programming and Simulated Annealing: A Hybrid Method to Evolve Decision Trees -- Seeding Genetic Programming Populations --Distributed Java Bytecode Genetic Programming with Telecom Applications -- Fighting Program Bloat with the Fractal Complexity Measure -- Paragen -- The First Results -- Multi-robot Cooperation and Competition with Genetic Programming. Sommario/riassunto This volume contains the proceedings of EuroGP 2000, the European Conf- ence on Genetic Programming, held in Edinburgh on the 15th and 16th April 2000. This event was the third in a series which started with the two European workshops: EuroGP'98, held in Paris in April 1998, and EuroGP'99, held in Gothenburg in May 1999. EuroGP 2000 was held in conjunction with EvoWo- shops 2000 (17th April) and ICES 2000 (17th-19th April). Genetic Programming (GP) is a growing branch of Evolutionary Compu- tion in which the structures in the population being evolved are computer p- grams. GP has been applied successfully to a large number of di?cult problems like automatic design, pattern recognition, robotic control, synthesis of neural networks, symbolic regression, music and picture generation, biomedical app- cations, etc. In recent years, even human-competitive results have been achieved by a number of groups. EuroGP 2000, the ? rst evolutionary computation conference of the new m-lennium, was the biggest event devoted to genetic programming to be held in Europe in 2000. It was a high quality conference where state-of-the-art work on the theory of GP and applications of GP to real world problems was presented.