Record Nr.	UNINA9910768175403321
Titolo	Evolutionary Programming VI : 6th International Conference, EP 97, Indianapolis, Indiana, USA, April 13-16, 1997, Proceedings / / edited by Peter J. Angeline, Robert G. Reynolds, John R. McDonnell, Russ Eberhart
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1997
ISBN	3-540-68518-9
Edizione	[1st ed. 1997.]
Descrizione fisica	1 online resource (X, 466 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 1213
Disciplina	005.1
Soggetti	Computer simulation
	Artificial intelligence
	Computer programming
	Computers
	Algorithms
	Computer networks
	Simulation and Modeling
	Artificial Intelligence Programming Techniques
	Computation by Abstract Devices
	Algorithm Analysis and Problem Complexity
	Computer Communication Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Complexity formalisms, order and disorder in the structure of art Searching real-valued synaptic weights of Hopfield's associative memory using evolutionary programming The application of evolutionary computation to selected problems in molecular biology PEPNet: Parallel evolutionary programming for constructing artificial neural networks Scaling behavior of the evolution strategy when evolving neuronal control architectures for autonomous agents Swarm: An object oriented simulation platform applied to markets and

	organizations An agent-based computational model for the evolution of trade networks Performance enhanced genetic programming Comparing subtree crossover with macromutation Musica ex machina: Composing 16th-century counterpoint with genetic programming and symbiosis Design of a high-gain operational amplifier and other circuits by means of genetic programming Modeling speculators with genetic programming Fast evolution strategies Airspace congestion smoothing by stochastic optimization Evolian: Evolutionary optimization based on lagrangian with constraint scaling Solving static and dynamic fuzzy constraint networks using evolutionary hill-climbing Applying family competition to evolution strategies for constrained optimization Multi-operator evolutionary programming: A preliminary study on function optimization Supporting polyploidy in genetic algorithms using dominance vectors An individually variable mutation rate strategy for genetic algorithms Inductive learning of mutation step- size in evolutionary parameter optimization A note on the escape probabilities for two alternative methods of selection under Gaussian mutation Raising theoretical questions about the utility of genetic algorithms Some geometric and algebraic results on crossover An analysis of evolutionary algorithms based on neighbourhood and step sizes Structuring pattern generalization through evolutionary techniques A cultural algorithm framework to evolve multiagent cooperation with evolutionary programming Investigating parallel genetic algorithms on job shop scheduling problems Using evolutionary programming Investigating parallel genetic algorithms on job shop scheduling problems Using evolutionary programming for finite element problems Using insight into evolutionary programming through landscape visualization: An investigation into IIR filtering Evolution of intelligently interactive behaviors for simulated forces Combining robot control strategies using
Sommario/riassunto	This book constitutes the refereed proceedings of the 6th International Conference on Evolutionary Programming, EP 97, held in Indianapolis, IN, USA, in April 1997. The 36 revised full papers presented were carefully selected for inclusion in the proceedings. The papers are organized in sections on evolutionary methods for modeling and training, alternative frameworks for the computational study of evolutionary social systems, genetic programming: issues and applications, issues in evolutionary optimization, enhanced evolutionary operators, theory and analysis of evolutionary computations, issues in adaptability: theory and practice, and evolution and NP-hard problems.