

1. Record Nr.	UNINA9910450600303321
Autore	Back Thomas <1963->
Titolo	Evolutionary algorithms in theory and practice [[electronic resource]] : evolution strategies, evolutionary programming, genetic algorithms // Thomas Back
Pubbl/distr/stampa	New York, : Oxford University Press, 1996
ISBN	0-19-756092-X 1-280-76079-6 9786610760794 0-19-535670-5
Descrizione fisica	1 online resource (329 p.)
Collana	Oxford scholarship online
Disciplina	005.1 006.3
Soggetti	Genetic algorithms Evolution (Biology) - Mathematical models Evolutionary programming (Computer science) Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previously issued in print: 1996.
Nota di bibliografia	Includes bibliographical references (p. 293-305) and index.
Nota di contenuto	Contents; Introduction; I: A COMPARISON OF EVOLUTIONARY ALGORITHMS; 1 Organic Evolution and Problem Solving; 1.1 Biological Background; 1.2 Evolutionary Algorithms and Artificial Intelligence; 1.3 Evolutionary Algorithms and Global Optimization; 1.4 Early Approaches; 1.5 Summary; 2 Specific Evolutionary Algorithms; 2.1 Evolution Strategies; 2.2 Evolutionary Programming; 2.3 Genetic Algorithms; 2.4 Summary; 3 Artificial Landscapes; 3.1 Sphere Model; 3.2 Step Function; 3.3 Ackley's Function; 3.4 Function after Fletcher and Powell; 3.5 Fractal Function; 3.6 Summary; 4 An Empirical Comparison C.2 UsageC.3 Data Collection; D: The Multiprocessor Environment; D.1 The Transputer System; D.2 The Helios Operating System; E: Mathematical Symbols; Bibliography; Index; A; B; C; D; E; F; G; H; I; K; L; M; N; O; P; Q; R; S; T; U; V; W
Sommario/riassunto	Comparing the three most prominent representatives of evolutionary

algorithms - genetic algorithms, evolution strategies and evolutionary programming - this book examines the computational methods at the border between computer science and evolutionary biology. The algorithms are explained within a common framework, thereby clarifying the similarities and differences of these methods. The author also presents new results regarding the role of mutation and selection in genetic algorithms and uses a meta-evolutionary approach to confirm some of the theoretical results.

2. Record Nr.	UNINA9910705714203321
Autore	Shalkhauser Mary Jo W.
Titolo	Waveform developer's guide for the integrated power, avionics, and software (iPAS) space telecommunications radio system (STRS) radio // Mary Jo W. Shalkhauser and Rigoberto Roche
Pubbl/distr/stampa	Cleveland, Ohio : , : National Aeronautics and Space Administration, Glenn Research Center, , May 2017
Descrizione fisica	1 online resource (32 pages) : color illustrations
Collana	NASA/TM ; ; 2017-219476
Soggetti	Applications programs (computers) Field-programmable gate arrays Transmitter receivers VHSIC (circuits) Waveforms
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"May 2017."
Nota di bibliografia	Includes bibliographical references (page 32).
