

1. Record Nr.	UNISA996418268303316
Titolo	Handbook of Heuristics [[electronic resource] /] / edited by Rafael Martí, Pardalos Panos, Mauricio G. C. Resende
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-319-07153-X
Descrizione fisica	1 online resource (3000 p.)
Disciplina	518.1
Soggetti	Algorithms Mathematical optimization Mathematical analysis Analysis (Mathematics) Applied mathematics Engineering mathematics Computer science—Mathematics Computer software Optimization Analysis Mathematical and Computational Engineering Math Applications in Computer Science Mathematical Software
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Search Strategies -- Adaptive and Multilevel Metaheuristics -- Local Search -- Metaheuristics -- Evolutionary Algorithms -- Memetic Algorithms -- Applications -- Scheduling Heuristics -- Analysis and Implementation -- Theoretical Analysis of Stochastic Search Algorithms.
Sommario/riassunto	Heuristics are strategies using readily accessible, loosely applicable information to control problem solving. Algorithms, for example, are a type of heuristic. By contrast, Metaheuristics are methods used to design Heuristics and may coordinate the usage of several Heuristics

toward the formulation of a single method. GRASP (Greedy Randomized Adaptive Search Procedures) is an example of a Metaheuristic. To the layman, heuristics may be thought of as 'rules of thumb' but despite its imprecision, heuristics is a very rich field that refers to experience-based techniques for problem-solving, learning, and discovery. Any given solution/heuristic is not guaranteed to be optimal but heuristic methodologies are used to speed up the process of finding satisfactory solutions where optimal solutions are impractical. The introduction to this Handbook provides an overview of the history of Heuristics along with main issues regarding the methodologies covered. This is followed by Chapters containing various examples of local searches, search strategies and Metaheuristics, leading to an analyses of Heuristics and search algorithms. The reference concludes with numerous illustrations of the highly applicable nature and implementation of Heuristics in our daily life. Each chapter of this work includes an abstract/introduction with a short description of the methodology. Key words are also necessary as part of top-matter to each chapter to enable maximum search engine optimization. Next, chapters will include discussion of the adaptation of this methodology to solve a difficult optimization problem, and experiments on a set of representative problems.

---

2. Record Nr.	UNINA9910133754703321
Titolo	Computational cognitive science
Pubbl/distr/stampa	[Heidelberg, Germany] : , : Springer, , [2015]-
ISSN	2195-3961
Descrizione fisica	1 online resource
Soggetti	Cognitive science Cognition - Computer simulation Cognitive Science Artificial Intelligence Periodical Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed