

HANDBOOK OF METAHEURISTICS (INTERNATIONAL SERIES IN OPERATIONS RESEARCH MANAGEMENT SCIENCE) pdf

1: Handbook of Metaheuristics by Michel Gendreau

*Handbook of Metaheuristics (International Series in Operations Research & Management Science) [Michel Gendreau, Jean-Yves Potvin] on www.enganchecubano.com *FREE* shipping on qualifying offers. The third edition of this handbook is designed to provide a broad coverage of the concepts, implementations.*

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2: Metaheuristic - Wikipedia

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These are properties that characterize most metaheuristics: The goal is to efficiently explore the search space in order to find near-“optimal solutions. Techniques which constitute metaheuristic algorithms range from simple local search procedures to complex learning processes. Metaheuristic algorithms are approximate and usually non-deterministic. Metaheuristics are not problem-specific. Classification[edit] Euler diagram of the different classifications of metaheuristics. Global search[edit] One approach is to characterize the type of search strategy. A well known local search algorithm is the hill climbing method which is used to find local optimums. However, hill climbing does not guarantee finding global optimum solutions. Many metaheuristic ideas were proposed to improve local search heuristic in order to find better solutions. Such metaheuristics include simulated annealing , tabu search , iterated local search , variable neighborhood search , and GRASP. Other global search metaheuristic that are not local search-based are usually population-based metaheuristics. Such metaheuristics include ant colony optimization , evolutionary computation , particle swarm optimization , and genetic algorithms. Population-based[edit] Another classification dimension is single solution vs population-based searches. Ant colony optimization , [9] particle swarm optimization , [6] social cognitive optimization , penguins search optimization algorithm and artificial bee colony [10] algorithms are examples of this category. Hybridization and memetic algorithms[edit] A hybrid metaheuristic is one which combines a metaheuristic with other optimization approaches, such as algorithms from mathematical programming , constraint programming , and machine learning. Both components of a hybrid metaheuristic may run concurrently and exchange information to guide the search. On the other hand, Memetic algorithms [11] represent the synergy of evolutionary or any population-based approach with separate individual learning or local improvement procedures for problem search. An example of memetic algorithm is the use of a local search algorithm instead of a basic mutation operator in evolutionary algorithms. Parallel metaheuristics[edit] A parallel metaheuristic is one which uses the techniques of parallel programming to run multiple metaheuristic searches in parallel; these may range from simple distributed schemes to concurrent search runs that interact to improve the overall solution. Swarm intelligence and List of metaphor-inspired metaheuristics A very active area of research is the design of nature-inspired metaheuristics. Many recent metaheuristics, especially evolutionary computation-based algorithms, are inspired by natural systems. Such metaheuristics include simulated annealing , evolutionary algorithms , ant colony optimization and particle swarm optimization. A large number of more recent metaphor-inspired metaheuristics have started to attract criticism in the research community for hiding their lack of novelty behind an elaborate metaphor. Applications[edit] Metaheuristics are used for combinatorial optimization in which an optimal solution is sought over a discrete search-space. An example problem is the travelling salesman problem where the search-space of candidate solutions grows faster than exponentially as the size of the problem increases, which makes an exhaustive search for the optimal solution infeasible. Additionally, multidimensional combinatorial problems, including most design problems in engineering [12] [13] [14] such as form-finding and behavior-finding, suffer from the curse of dimensionality , which also makes them infeasible for exhaustive search or analytical methods. Metaheuristics are also widely used for jobshop scheduling and job selection problems. Literature review on metaheuristic optimization, [20] suggested that it was Fred Glover who coined the word metaheuristics. Some of the most significant contributions to the field are: Robbins and Monro work on stochastic optimization methods. Barricelli carry out the first simulations of the evolution process and use them on general optimization problems. Matyas proposes random optimization. Nelder and Mead propose a simplex heuristic , which was shown by Powell to converge to non-stationary points on some problems. Hastings proposes the Metropolis-Hastings algorithm. Cavicchio proposes adaptation of control parameters for an optimizer.

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Kernighan and Lin propose a graph partitioning method, related to variable-depth search and prohibition-based tabu search. Glover proposes Scatter Search.

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