

Handbook Of Metaheuristics

[DOWNLOAD HERE](#)

1;Preface;5 2;Preface to First Edition;7 3;Contents;10 4;Contributors;12 5;1 Simulated Annealing ;17
5.1;Alexander G. Nikolaev and Sheldon H. Jacobson;17 5.1.1;1.1 Background Survey;17 5.1.1.1;1.1.1
History and Motivation;18 5.1.1.2;1.1.2 Definition of Terms;18 5.1.1.3;1.1.3 Statement of Algorithm;20
5.1.1.4;1.1.4 Discrete Versus Continuous Problems;20 5.1.1.5;1.1.5 Single-objective Versus
Multi-objective Problems;21 5.1.2;1.2 Convergence Results;23 5.1.2.1;1.2.1 Asymptotic Performance;23
5.1.2.2;1.2.2 Finite-Time Performance;31 5.1.3;1.3 Relationship to Other Local Search Algorithms;33
5.1.3.1;1.3.1 Threshold Accepting;33 5.1.3.2;1.3.2 Noising Method;34 5.1.3.3;1.3.3 Tabu Search;35
5.1.3.4;1.3.4 Genetic Algorithms;35 5.1.3.5;1.3.5 Generalized Hill-Climbing Algorithms;36 5.1.4;1.4
Practical Guidelines;38 5.1.4.1;1.4.1 Problem-Specific Choices;38 5.1.4.2;1.4.2 Generic Choices;40
5.1.4.3;1.4.3 Domains---Types of Problems with Examples;44 5.1.5;1.5 Summary;48 5.1.6;References;49
6;2 Tabu Search;56 6.1;Michel Gendreau and Jean-Yves Potvin;56 6.1.1;2.1 Introduction;56 6.1.2;2.2
The Classical Vehicle Routing Problem;57 6.1.3;2.3 Basic Concepts;58 6.1.3.1;2.3.1 Historical
Background;58 6.1.3.2;2.3.2 Tabu Search;59 6.1.3.3;2.3.3 Search Space and Neighborhood Structure;59
6.1.3.4;2.3.4 Tabus;61 6.1.3.5;2.3.5 Aspiration Criteria;62 6.1.3.6;2.3.6 A Template for Simple Tabu
Search;62 6.1.3.7;2.3.7 Termination Criteria;63 6.1.3.8;2.3.8 Probabilistic TS and Candidate Lists;63
6.1.4;2.4 Intermediate Concepts;64 6.1.4.1;2.4.1 Intensification;64 6.1.4.2;2.4.2 Diversification;65
6.1.4.3;2.4.3 Allowing Infeasible Solutions;65 6.1.4.4;2.4.4 Surrogate and Auxiliary Objectives;66
6.1.5;2.5 Advanced Concepts and Recent Trends;67 6.1.6;2.6 Key References;68 6.1.7;2.7 Tricks of the
Trade;68 6.1.7.1;2.7.1 Getting Started;68 6.1.7.2;2.7.2 More Tips;69 6.1.7.3;2.7.3 Additional Tips for
Probabilistic TS;69 6.1.7.4;2.7.4 Parameter Calibration and Computational Testing;70 6.1.8;2.8
Conclusion;71 6.1.9;References;71 7;3 Variable Neighborhood Search;75 7.1;Pierre Hansen, Nenad
Mladenovic, Jack Brimberg and Jos A. Moreno Prez;75 7.1.1;3.1 Introduction;76 7.1.2;3.2 Basic
Schemes;77 7.1.3;3.3 Some Extensions;82 7.1.4;3.4 Variable Neighborhood Formulation Space
Search;84 7.1.5;3.5 Primal--Dual VNS;85 7.1.6;3.6 Variable Neighborhood Branching---VNS for Mixed
Integer Linear Programming;86 7.1.7;3.7 Variable Neighborhood Search for Continuous Global

Optimization;89 7.1.8;3.8 Mixed Integer Nonlinear Programming (MINLP) Problem;91 7.1.9;3.9 Discovery Science;93 7.1.10;3.10 Conclusions;95 7.1.11;References;96 8;4 Scatter Search and Path-Relinking: Fundamentals, Advances, and Applications;101 8.1;Mauricio G.C. Resende, Celso C. Ribeiro, Fred Glover and Rafael Mart;101 8.1.1;4.1 Introduction;102 8.1.2;4.2 Scatter Search;103 8.1.2.1;4.2.1 New Strategies in Global Optimization;105 8.1.2.2;4.2.2 New Strategies in Combinatorial Optimization;106 8.1.3;4.3 Path-Relinking;108 8.1.3.1;4.3.1 Mechanics of Path-Relinking;108 8.1.3.2;4.3.2 Minimum Distance Required for Path-Relinking;112 8.1.3.3;4.3.3 Randomization in Path-Relinking;112 8.1.3.4;4.3.4 Hybridization with a Pool of Elite Solutions;114 8.1.3.5;4.3.5 Evolutionary Path-Relinking;115 8.1.3.6;4.3.6 Progressive Crossover: Hybridization with Genetic Algorithms;116 8.1.3.7;4.3.7 Hybridization of Path-Relinking with Other Heuristics;117 8.1.4;4.4 Applications and Concluding Remarks;120 8.1.5;References;120 9;5 Genetic Algorithms;122 9.1;Colin R. Reeves ;122 9.1.1;5.1 Introduction;122 9.1.2;5.2 Basic Concepts;124 9.1.3;5.3 Why Does It Work?;127 9.1.3.1;5.3.1 The Traditional' View;127 9.1.3.2;5.3.2 Other Approaches;129 9.1.4;5.4 Applications and Sources;130 9.1.5;5.5 Initial Population;131 9.1.6;5.6 Termination;132 9.1.7;5.7 Crossover Condition;133 9.1.8;5.8 Selection;133 9.1.8.1;5.8.1 Ranking;135 9.1.8.2;5.8.2 Tournament Select EAN/ISBN : 9781441916655 Publisher(s): Springer, Berlin, Springer Science & Business Media Discussed keywords: Operations Research Format: ePub/PDF Author(s): Gendreau, Michel - Potvin, Jean-Yves

[DOWNLOAD HERE](#)

Similar manuals:

[Algebraic And Combinatorial Methods In Operations Research. North-Holland Mathematics Studies, Volume 95: Annals Of Discrete Mathematics, Volume 19.](#)

[Annotated Timeline Of Operations Research](#)

[Community-Based Operations Research](#)

[Handbook Of Metaheuristics](#)

[Operations Research And Health Care](#)

[Operations Research Proceedings 2008](#)

[Operations Research Proceedings 2010](#)

[Perspectives On Operations Research](#)

[Profiles In Operations Research](#)

[Operations Research](#)

[Operations Research](#)

[E-Study Guide For: Handbooks In Operations Research And Management Science : Financial Engineering By John Birge, ISBN 9780444517814 - Cram101 Textbook Reviews](#)

[E-Study Guide For: Handbooks In Operations Research & Management Science : Transportation By Cynthia Barnhart, ISBN 9780444513465 - Cram101 Textbook Reviews](#)

[E-Study Guide For: Deterministic Operations Research : Models And Methods In Linear Optimization By David Rader, ISBN 9780470484517 - Cram101 Textbook Reviews](#)

[How To Land A Top-Paying Operations Research Analysts Job: Your Complete Guide To Opportunities, Resumes And Cover Letters, Interviews, Salaries, Prom - Aaron Mclaughlin](#)

[Operations Research Analyst, Business Analyst, Intelligence Analyst - How To Land A Top-Paying Job: Your Complete Guide To Opportunities, Resumes And - Brad Andrews](#)

[E-Study Guide For: Introductory Operations Research By Harvir S. Kasana, ISBN 9783540401384 - Cram101 Textbook Reviews](#)

[E-Study Guide For: Operations Research : Introduction By Hamdy A. Taha, ISBN 9780131889231 - Cram101 Textbook Reviews](#)

[E-Study Guide For: Probability Models In Operations Research By C. Richard Cassady, ISBN 9781420054897 - Cram101 Textbook Reviews](#)