

Bibliografia

- [1] AHUJA, R.; ORLIN, J. ; TIWARI, A.. **A greedy genetic algorithm for the quadratic assignment problem.** Computers and Operations Research, 27:917–934, 2000.
- [2] ALEX, R.; RESENDE, M. ; RIBEIRO, C.. **Probability distribution of solution time in GRASP: An experimental investigation.** Journal of Heuristics, 8:343–373, 2002.
- [3] ANDREATTA, A. A.. **Uma arquitetura abstrata de domínio para o desenvolvimento de heurísticas de busca local com uma aplicação ao problema da filogenia.** Tese de Doutorado, Pontifícia Universidade Católica, Rio de Janeiro, 1998.
- [4] ANDREATTA, A. A.; RIBEIRO, C. C.. **Heuristics for the phylogeny problem.** Journal of Heuristics, 8:429–447, 2002.
- [5] ARAÚJO, G.; ALMEIDA, N.. **Phylogeny from whole genome comparison.** In: FIRST BRASILIAN WORKSHOP ON BIOINFORMATICS, p. 9 – 15, Gramado, 2002.
- [6] AYALA, F. J.. **The myth of Eve: Molecular biology and human origins.** Science, 270:1930–1939, 1995.
- [7] BACH, T.; HAMMEL, U. ; SCHWEFEL, P. H.. **Evolutionary computation: Comments on the history and current state.** IEEE Transactions on Evolutionary Computation, 1:3–17, 1997.
- [8] BEAN, J. C.. **Genetic algorithms and random keys for sequencing and optimization.** ORSA Journal on Computing, 6:154–160, 1994.
- [9] BODLAENDER, H.; FELLOWS, M. ; WARNOW, T.. **Two strikes against the perfect phylogeny problem.** In: INTERNATIONAL CONFERENCE ON ALGORITHMS, LANGUAGES AND PROGRAMMING, p. 273–283, Viena, 1992. Springer-Verlag.

- [10] BURIOL, L. S.; RESENDE, M. G. C.; RIBEIRO, C. C. ; THORUP, M.. **A hybrid genetic algorithm for the weight setting problem in OSPF/IS-IS routing**. Relatório técnico, 2003.
- [11] CANUTO, S.; RESENDE, M. ; RIBEIRO, C.. **Local search with perturbations for the prize-collecting Steiner tree problem in graphs**. Networks, 38:50–58, 2001.
- [12] DAY, W. H. E.; JOHNSON, D. S. ; SANKOFF, D.. **The computational complexity of inferring rooted phylogenies by parsimony**. Mathematical Biosciences, 81:33–42, 1986.
- [13] DRESS, A.; KRÜGER, M.. **Parsimonious phylogenetic trees in metric spaces and simulated annealing**. Advances in Applied Mathematics, 8:8–37, 1987.
- [14] DRUMMOND, L. M. A.; OCHI, L. S. ; VIANNA, D. S.. **An asynchronous parallel metaheuristic for the period vehicle routing problem**. Future Generation Computer Systems, 17:379–386, 2001.
- [15] EDWARDS, A.; CAVALLI-SFORZA, L.. **Reconstruction of evolutionary trees**. Phenetic and Phylogenetic Classification, 6:67–76, 1964.
- [16] ESHELMAN, L. J.; CARUANA, R. A. ; SCHAFFER, J. D.. **Biases in the crossover landscape**. In: PROCEEDINGS OF THE THIRD INTERNATIONAL CONFERENCE ON GENETIC ALGORITHMS, p. 10–19, San Mateo, 1989. Morgan Kaufmann Publishers.
- [17] FARRIS, J. S.. **Methods for computing Wagner trees**. Systematic Zoology, 19:83–92, 1970.
- [18] FARRIS, J. S.. **WAGNER78**. Port Jefferson, New York, 1978.
- [19] FELSENSTEIN, J.. **Package for inferring phylogenies**. Univesity of Washington, Seatle, 1982.
- [20] FEO, T.; RESENDE, M.. **A probabilistic heuristic for a computationally difficult set covering problem**. Operations Research Letters, 8:67–71, 1989.
- [21] FEO, T.; RESENDE, M.. **Greedy randomized adaptive search procedures**. Journal of Global Optimization, 6:109–133, 1995.

- [22] FESTA, P.; RESENDE, M.. **GRASP: An annotated bibliography**. In: Ribeiro, C. C.; Hansen, P., editores, ESSAYS AND SURVEYS IN METAHEURISTICS, p. 325–367. Kluwer Academic Publishers, 2002.
- [23] FESTA, P.; RESENDE, M.; PARDALOS, P. ; RIBEIRO, C.. **GRASP and VNS for max-cut**. In: EXTENDED ABSTRACTS OF THE FOURTH METAHEURISTICS INTERNATIONAL CONFERENCE, p. 371–376, Porto, 2001.
- [24] FITCH, W. M.. **Towards defining the course of evolution: Minimum chances for a specific tree topology**. Systematic Zoology, 20:406–419, 1971.
- [25] FITCH, W. M.; FARRIS, J.. **Evolutionary trees with minimum nucleotide replacements from amino acid sequences**. Journal of Molecular Evolution, 3:263–278, 1974.
- [26] FOGEL, D. B.. **An introduction to simulated evolutionary computation**. IEEE Transactions on Neural Networks, 5:3–14, 1994.
- [27] FOULDS, L. R.; GRAHAM, R. L.. **The Steiner problem in phylogeny is NP-complete**. Advances in Applied Mathematics, 3:43–49, 1982.
- [28] FOULDS, L. R.; GRAHAM, R. L.. **Unlikelihood that minimal phylogenie for a realistic biological study can be constructed in reasonable computational time**. Mathematical Biosciences, 60:133–142, 1982.
- [29] GALLUT, C.; BARRIEL, V. ; VIGNES, R.. **Gene order and phylogenetic information**. In: Sankoff, D.; Nadeau, J. H., editores, COMPARATIVE GENOMICS, p. 123 – 132. Kluwer Academic Publishers, 2000.
- [30] GLOVER, F.. **Tabu search for nonlinear and parametric optimization with links to genetic algorithms**. Discrete Applied Mathematics, 49:231–255, 1994.
- [31] GLOVER, F.. **Tabu search fundamentals and uses**. Relatório técnico, University of Colorado at Boulder, 1994.
- [32] GLOVER, F.. **Scatter search and star-paths: Beyond the genetic metaphor**. OR Spektrum, 17:125–137, 1995.

- [33] GLOVER, F.. **Tabu search and adaptive memory programming: Advances, applications and challenges**. In: Barr, R. S.; Helgason, R. ; Kennington, J. L., editores, INTERFACES IN COMPUTER SCIENCE AND OPERATIONS RESEARCH, p. 1–75. Kluwer Academic Publishers, 1996.
- [34] GLOVER, F.; LAGUNA, M.. **Tabu Search**. Kluwer Academic Publishers, 1997.
- [35] GLOVER, F.; LAGUNA, M. ; MARTÍ, R.. **Fundamentals of scatter search and path-relinking**. Control and Cybernetics, 39:653–684, 2000.
- [36] GOLOBOFF, P.. **Methods for faster parsimony analysis**. Cladistics, 12:199–220, 1996.
- [37] GOLOBOFF, P.. **Comunicação pessoal**, 1997.
- [38] GOLOBOFF, P.. **Comunicação pessoal**, 1999.
- [39] HANSEN; MLADENOVIĆ, N.. **An introduction to variable neighbourhood search**. In: Voss, S.; Martello, S.; Osman, I. ; Roucairol, C., editores, METAHEURISTICS: ADVANCES AND TRENDS IN LOCAL SEARCH PROCEDURES FOR OPTIMIZATION, p. 433–458. Kluwer Academic Publishers, 1999.
- [40] HANSEN, P.; MLADENOVIĆ, N.. **Developments of variable neighborhood search**. In: Ribeiro, C. C.; Hansen, P., editores, ESSAYS AND SURVEYS IN METAHEURISTICS, p. 415–439. Kluwer Academic Publishers, 2001.
- [41] HANSEN, P.; MLADENOVIĆ, N.. **Variable neighbourhood search**. In: Glover, F.; Kochenberger, G., editores, HANDBOOK OF METAHEURISTICS, p. 145–184. Kluwer Academic Publishers, 2003.
- [42] HART, J.; SHOGAN, A.. **Semi-greedy heuristics: An empirical study**. Operations Research Letters, 6:107–114, 1987.
- [43] HENNIG, W.. **Phylogenetic systematics**. University of Illinois Press, Urbana, 1966.
- [44] HOLLAND, J.. **Adaptation in natural and artificial systems**. MIT Press, 2^a edição, 1992.

- [45] JOHNSON, D.; PAPADIMITRIOU, C. ; YANNAKAKIS, M.. **How easy is local search?** Journal of Computer and System Sciences, 17:79–100, 1988.
- [46] KITCHING, I. J.; FOREY, P. L.; HUMPHRIES, C. J. ; WILLIAMS, D. M.. **Cladistics: The theory and practice of parsimony analysis.** Oxford University Press, Londres, 1998.
- [47] LOURENÇO, H.; PAIXÃO, J. P. ; PORTUGAL, R.. **Multiobjective metaheuristics for the bus-driver scheduling problem.** Transportation Science, 35:331–343, 2001.
- [48] LUCKOW, M.; PIMENTEL, R. A.. **An empirical comparison of numerical Wagner computer programs.** Cladistics, 1:47–66, 1985.
- [49] MARTINS, S.; PARDALOS; RESENDE, M. ; RIBEIRO, C.. **A parallel GRASP for the Steiner tree problem in graphs using a hybrid local search strategy.** Journal of Global Optimization, 17:267–283, 2000.
- [50] MICHALEWICZ, Z.. **Genetic algorithm + data structures = evolution programs.** Springer-Verlag, 3^a edição, 1996.
- [51] MICHALEWICZ, Z.; SCHOENAUER, M.. **Evolutionary algorithms for constrained parameter optimization problems.** Evolutionary Computation, 4:1–32, 1996.
- [52] MICKEVICH, M. F.; FARRIS, J. S.. **Phylogenetic Analysis System - PHYSYS.** Port Jefferson, New York, 1982.
- [53] MLADENOVIC, N.; HANSEN, P.. **Variable neighborhood search.** Computers and Operations Research, 24:1097–1100, 1997.
- [54] OCHI, L. S.; DRUMMOND, L. M. A. ; VIANNA, D. S.. **An evolutionary hybrid metaheuristic for solving the vehicle routing problem with heterogeneous fleet.** Lecture Notes in Computer Science, 1391:187–195, 1998.
- [55] OCHI, L. S.; DRUMMOND, L. M. A.; VIANNA, D. S. ; VICTOR, A. O.. **A parallel evolutionary algorithms for solving the vehicle routing problem with heterogeneous fleet.** Future Generation Computer Systems, 14:285–292, 1998.

- [56] PENNY, D.; FOULDS, L. R. ; HENDY, M. D.. **Testing the theory of evolution by comparing phylogenetic trees constructed from five different protein sequences.** Nature, 247:197–200, 1982.
- [57] PLATNICK, N. I.. **An empirical comparison of microcomputer parsimony programs.** Cladistics, 3:121–144, 1987.
- [58] PLATNICK, N. I.. **An empirical comparison of microcomputer parsimony programs II.** Cladistics, 5:145–161, 1989.
- [59] REEVES, C.. **Diversity and diversification in genetic algorithms: Some connections with tabu search.** In: FIRST INTERNATIONAL CONFERENCE ON ARTIFICIAL NEURAL NETS AND GENETIC ALGORITHMS, p. 344–351, Viena, 1993. Springer-Verlag.
- [60] RESENDE, M. G. C.; RIBEIRO, C. C.. **Greedy randomized adaptive search procedures.** In: Glover, F.; Kochenberger, G., editores, HANDBOOK OF METAHEURISTICS, p. 219–249. Kluwer Academic Publishers, 2003.
- [61] RESENDE, M. G. C.; RIBEIRO, C. C.. **GRASP with path-relinking: Recent advances and applications.** Relatório técnico, 2003.
- [62] RESENDE, M. G. C.; RIBEIRO, C. C.. **GRASP with path-relinking for private virtual circuit routing.** Networks, 41:104–114, 2003.
- [63] RIBEIRO, C.; SOUZA, M.. **Variable neighborhood search for the degree-constrained minimum spanning tree problem.** Discrete Applied Mathematics, 118:43–54, 2002.
- [64] RIBEIRO, C.; UCHOA, E. ; WERNECK, R.. **A hybrid GRASP with perturbations for the Steiner problem in graphs.** INFORMS Journal on Computing, 14:228–246, 2002.
- [65] RIBEIRO, C. C.; VIANNA, D. S.. **A GRASP/VND heuristic for the phylogeny problem using a new neighborhood structure.** Relatório técnico, 2003.
- [66] ROCHAT, Y.; TAILLARD, E.. **Probabilistic diversification and intensification on local search for vehicle routing.** Journal of Heuristics, 1:147–167, 1995.

- [67] SCHRAGE, L.. **A more portable FORTRAN random number generator**. ACM Transactions on Mathematical Software, 5:132–138, 1979.
- [68] SCHWEFEL, H. P.. **On the evolution of evolutionary computation**. In: Zurada, J. M.; Marks, R. ; Robinson, C. J., editores, COMPUTATION INTELLIGENCE – IMITATING LIFE, p. 116–124. IEEE Press, 1994.
- [69] SOBER, E.. **Parsimony likelihood and the principle of the common cause**. Philosophy of Science, 54:465–469, 1987.
- [70] SWOFFORD, D. L.. **Wagner procedure program**. Illinois Natural History Survey, Champaign, 1982.
- [71] SWOFFORD, D. L.; OLSEN, G.. **Phylogeny reconstruction**. In: Hillis, D. M.; Moritz, C., editores, MOLECULAR SYSTEMATICS, p. 411–501. Sinauer, 1990.
- [72] SYSWERDA, G.. **Uniform crossover in genetic algorithms**. In: PROCEEDINGS OF THE THIRD INTERNATIONAL CONFERENCE ON GENETIC ALGORITHMS, p. 2–9, San Mateo, 1989. Morgan Kaufmann Publishers.
- [73] VIANNA, D. S.; OCHI, L. S. ; DRUMMOND, L. M. A.. **A parallel hybrid evolutionary metaheuristic for the period vehicle routing problem with heterogeneous fleet**. Lecture Notes in Computer Science, 1388:216–225, 1999.
- [74] VOGEL, G.. **Phylogenetic analysis: Getting its day in court**. Science, 275:1559–1560, 1997.
- [75] WANG, L.; WARNOW, T.. **New polynomial-time methods for whole-genome phylogeny reconstruction**. In: 33rd SYMPOSIUM ON THEORY OF COMPUTATION, p. 637 – 646, Crete, 2001.
- [76] WHITLEY, D.; STARKWEATHER, T. ; FURQUAY, D.. **Scheduling problems and traveling salesman: The genetic edge recombination operator**. In: PROCEEDINGS OF THE THIRD INTERNATIONAL CONFERENCE ON GENETIC ALGORITHMS, p. 133–140, San Mateo, 1989. Morgan Kaufmann Publishers.
- [77] WILEY, E. O.; SIEGEL-CAUSEY, D.; BROOKS, D. R. ; FUNK, V. A.. **The complete cladistics: A primer of phylogenetic**

procedures. Relatório técnico 19, The University of Kansas, Museum of Natural History, 1991.

- [78] WILSON, M. V. H.. **Importance for phylogeny of single and multiple stem-group fossil species with examples from freshwater fishes.** Systematics Biology, 41:462–470, 1992.