

Evolutionary Computation Bibliography

1. *Proc. of an International Conference on Genetic Algorithms and Their Applications*, Lawrence Erlbaum Associates, Hillsdale, NJ, 1985.
2. *Handbook of Genetic Algorithms*, Van Nostrand Reinhold, New York, 1991.
3. Antonisse, J. A New Interpretation of Schema Notation that Overturns the Binary Encoding Constraint. *Proc. of the Third International Conference on Genetic Algorithms and Their Applications* pp. 86-91. Morgan Kaufmann, San Mateo, CA, 1989.
4. Arabas, J. a., Michalewicz, Z., and Mulawka, J. GAVaPS - a Genetic Algorithm with Varying Population Size. *Proc. of the First IEEE Conference on Evolutionary Computation* pp. 73-78. 1994.
5. Asoh, H. and Muhlenbein Estimating the Heritability by Decomposing the Genetic Variance. *Parallel Problem Solving from Nature, Lecture Notes in Computer Science 866* pp. 98-107. Springer-Verlag, 1994.
6. Axelrod, R. Effective choice in the Prisoner's Dilemma. *Journal of Conflict Resolution*, Vol. 24, pp. 3-25. 1980.
7. Axelrod, R., *The Evolution of Cooperation*, BasicBooks, USA, 1984.
8. Back, T. Self-adaptation in Genetic Algorithms. *Proc. of the First European Conference on Artificial Life* pp. 263-271. The MIT Press, Cambridge, MA, 1992.
9. Back, T. Generalized convergence models for tournament and (mu, lambda) selection. *Proc. of the Sixth International Conference on Genetic Algorithms* pp. 2-7. Morgan Kaufmann Publishers, San Francisco, CA, 1995.
10. Back, T. and Schewefel, H. P. An overview of evolutionary algorithms for parameter optimization. *Evolutionary Computation*, Vol. 1, No. 1, pp. 1-23. 1993.
11. J. D. Bagley. The behavior of adaptive systems which employ genetic and correlation algorithms. 1967., University of Michigan.
12. Baker, J. A. Reducing bias and inefficiency in the selection algorithm. *Proc. 2nd Intl. Conf. on Genetic Algorithms: Genetic Algorithms and Their Applications* Lawrence Erlbaum Associates, Hillsdale, NJ, 1987.
13. Baker, J. E. Adaptive Selection Methods for Genetic Algorithms. *Proc. of the First International Conference on Genetic Algorithms* pp. 101-111. 1985.
14. Booker, L., "Improving Search in Genetic Algorithms," *Genetic Algorithms and Simulated Annealing*, edited by L. Davis Morgan Kaufmann Publishers, Los Altos, 1987, pp. 61-73.

15. Bremmermann, H. J., "Numerical optimization procedures derived from biological evolution processes," *Cybernetic Problems in Bionics*, edited by H. L. Oestreicher and D. R. Moore Gordon and Breach, New York, New York, 1968, pp. 597-616.
16. K. A. DeJong. An Analysis of the Behavior of a Class of Genetic Algorithms. 1975., University of Michigan.
17. DeJong, K. A. Learning with Genetic algorithms: An Overview. *Machine Learning*, Vol. 3, pp. 121-138. 1988.
18. Dyson, G. B., *Darwin Among the Machines*, Perseus Books, Reading, MA, 1997.
19. Fogel, D. B. A brief history of simulated evolution. 1990.
20. Fogel, D. B., *System Identification Through Simulated Evolution: A Machine Learning Approach to Modeling*, Ginn Press, Needham Heights, MA, 1991.
21. Fogel, D. B. An Introduction to Simulated Evolutionary Optimization. *IEEE Trans.on Neural Networks*, Vol. 5, No. 1, pp. 3-14. 1994a.
22. Fogel, D. B., *Evolutionary Computation: Towards a New Philosophy of Machine Intelligence*, IEEE Press, New York, 1995.
23. Fogel, D. B., *Evolutionary Computation: The Fossil Record*, Piscataway, IEEE Press, New Jersey, 1998.
24. Fogel, D. B. What is evolutionary computation? *IEEE Spectrum*, Vol. 37, No. 2, 2000.
25. Fogel, L. J., "Evolutionary programming in perspective: the top-down view," *Computational Intellingence: Imitating Life*, edited by J. M. Zurada, R. J. Marks, and C. J. Robinson IEEE Press, Piscataway, NJ, 1994b, pp. 135-146.
26. Fogel, L. J., Owens, A. J., and Walsh, M. J., *Artificial Intelligence through Simulated Evolution*, John Wiley, New York, NY, 1966.
27. Fraser, A. S. Simulation of genetic systems by automatic digital computers. *Australian Journal of Biological Science*, Vol. 10, pp. 484-499. 1957.
28. Fraser, A. S., "Simulation of genetic systems by automatic digital computers: 5-linkage, dominance and epistasis," *Biometrical Genetics*, edited by O. Kempthorne Macmillan, New York, NY, 1960, pp. 70-83.
29. Fraser, A. S. Simulation of genetic systems. *Journal of Theoretical Biology*, Vol. 2, No. 329, pp. 346. 1962.

30. Goldberg, D. E. Computer-aided gas pipeline operation using genetic algorithms and rule learning. *Dissertation Abstracts International*, Vol. 44, No. 10, pp. 3174B. 1983.
31. Goldberg, D. E. Computer-aided pipeline operation using genetic algorithms and rule learning. Part I: Genetic algorithms in pipeline optimization. *Engineering with Computers*, Vol. 3, pp. 35-45. 1987.
32. Goldberg, D. E., *Genetic Algorithms in Search, Optimization, and Machine Learning*, Addison-Wesley, Reading, MA, 1989.
33. Grefenstette, J. J. A user's guide to GENESIS. Report No. Technical Report CS-84-11, 1984a.
34. Grefenstette, J. J. GENESIS: A system for using genetic search procedures. *Proc. of the 1984 Conf. on Intelligent Systems and Machines* pp. 161-165. 1984b.
35. Grefenstette, J. J. Optimization of Control Parameters for Genetic Algorithms. *IEEE Trans.on Systems,Man, and cybernetics*, Vol. 16, pp. 122-128. 1986.
36. Haupt, R. and Haupt, S., *Practical Genetic Algorithms*, John Wiley and Sons, New York, NY, 1998.
37. Hinterding, R., Michalewicz, Z., and Eiben, A. E. Adaptation in Evolutionary Computation: A Survey. *Proc. of 1997 IEEE International Conference on Evolutionary Computation* pp. 65-69. 1997.
38. Holland, J. H., *Adaptation in Natural and Artificial Systems*, MIT Press, Cambridge, MA, 1975.
39. Holland, J. H., *Adaptation in Natural and Artificial Systems*, MIT Press 1992.
40. Holland, J. H., Holyoak, K. J., Nisbett, R. E., and Thagard, P. R., *Induction: Process of Inference, Learning, and Discovery*, MIT Press, Cambridge, 1986.
41. Holland, J. H. and Reitman, J. S., "Cognitive Systems Based on Adaptive Algorithms," *Pattern-Directed Inference Systems*, edited by D. A. Waterman and F. Hayes-Roth Academic Press, Ney York, 1978.
42. IEEE Neural Networks Council Glossary of evolutionary computation terms (working draft). IEEE Standing Committee on Standards, Piscataway, NJ, 1996.
43. Karr, C. L. Applying Genetics. *AI Expert*, pp. 38-43. 1991.
44. Koza, J. R., *Genetic Programming: On the Programming of Computers by Means of Natural Selection*, MIT Press, Cambridge, MA, 1992.

45. Lawrence, D. Adapting Operator Probabilities in Genetic Algorithms. *Proc. of 1989 International Conference on Genetic Algorithms*, pp. 61-69. 1989.
46. Liepins, G. E. and Potter, W. D., "A genetic algorithm approach to multiple-fault diagnosis," *Handbook of Genetic Algorithms*, edited by L. Davis Van Nostrand Reinhold, New York, NY, 1991.
47. McKee, J. K., *The Riddled Chain: Change, Coincidence, and Chaos in Human Evolution*, Rutgers University Press, Piscataway, NJ, 2000.
48. Michalewicz, Z. and Michalewicz, M., "Pro-life versus pro-choice strategies in evolutionary computation techniques," *Computational Intelligence: A Dynamic System Perspective*, edited by M. Palaniswami, Y. Attikiouzel, R. Marks, D. B. Fogel, and T. Fukuda IEEE Press, Piscataway, NJ, 1995, pp. 137-151.
49. Michalewicz, Z., Schaffer, J. D., Schwefel, H.-P., Fogel, D. B., and Kitano, H. Proc. of the First IEEE Conference on Evolutionary Computation. IEEE Service Center, Piscataway, NJ, 1994.
50. Michalewicz, Z. and Schoenauer, M. Evolutionary algorithms for constrained parameter optimization problems. *Evolutionary Computation*, Vol. 4, No. 1, pp. 1-32. 1996.
51. Michalewicz, Z., *Genetic Algorithms + Data Structures = Evolution Programs*, Springer-Verlag 1992.
52. Mitchell, M., *An Introduction to Genetic Algorithms*, MIT Press, Cambridge, MA, 1996.
53. Montana, D. J., "Automated parameter tuning for interpretation of synthetic images," *Handbook of Genetic Algorithms*, edited by L. Davis Van Nostrand Reinhold, New York, NY, 1991.
54. Muhlenbein, H. and Voosen, S. D. Predictive Models for the Breeder Genetic Algorithm I. Continuous Parameter Optimization. *Evolutionary Computation*, Vol. 1, pp. 25-49. 1993.
55. Rechenberg, I., *Evolutionsstrategie: Optimierung technischer Systeme nach Prinzipien der biologischen Evolution*, Frommann-Holzboog Verlag, Stuttgart, Germany, 1973.
56. Rechenberg, I., "Evolution strategy," *Computational Intelligence-Imitating Life*, edited by J. M. Zurada, R. J. Marks II, and C. J. Robinson IEEE Press, Piscataway, NJ, 1994, pp. 147-159.
57. Saravanan, N. and Fogel, D. B. Multi-operator Evolutionary Programming: A Preliminary Study on Function Optimization. *Proc. of the 6th International Conference on Evolutionary Programming* pp. 215-221. 1997.

58. J. D. Schaffer. Some experiments in machine learning using vector evaluated genetic algorithms.1984., Vanderbilt University, Nashville, TN.
59. Schaffer, J. D. and Morishima, A. An Adaptive Crossover Distribution Mechanism for Genetic Algorithms. *Proc. of the Second International Conference on Genetic Algorithms* pp. 36-40. 1987.
60. H.-P. Schwefel. Kybernetische Evolution als Strategie der experimentellen Forschung in der Stromungstechnik.1965., Technical University of Berlin, Germany.
61. Schwefel, H.-P., "On the evolution of evolutionary computation," *Computational Intelligence: Imitating Life*, edited by J. M. Zurada, R. J. Marks II, and C. J. Robinson IEEE Press, Piscataway, NJ, 1994.
62. S. F. Smith. A Learning Systems Based on Genetic Adaptive Algorithms.1980., University of Pittsburgh.
63. Srinivas, M. and Patnaik, L. M. Adaptive Probabilities of Crossover and Mutation in Genetic Algorithms. *IEEE Trans.on Systems, Man, and Cybernetics*, Vol. 24, No. 4, pp. 656-667. 1994.
64. Syswerda, G. Uniform crossover in genetic algorithms. *Proc. of the Third Int'l. Conf. on Genetic Algorithms* Morgan Kaufmann Publishers, San Mateo, CA, 1989.
65. Szu, H. Fast simulated annealing. *AIP Conf. Proc. 151: Neural Networks for Computing* pp. 420-425. American Institute of Physics, New York, NY, 1986.
66. Tahk, M. J. and Sun, B.-C. Coevolutionary augmented lagrangian methods for constrained optimization. *IEEE Transactions on Evolutionary Computation*, Vol. 4, No. 2, pp. 114-124. 2000.
67. Wright, A. H., "Genetic Algorithms for Real Parameter Optimization," *Foundations of Genetic Algorithms*, edited by G. Rawlins Morgan Kaufman, San Mateo, 1991, pp. 205-220.
68. Yao, X. and Liu, Y. Fast Evolutionary Programming. *Proc. of 5th Annual Conference on Evolutionary Programming* pp. 451-460. 1996.
69. Yao, X. and Liu, Y. Fast Evolution Strategies. *Proc. of 6th Annual Conference on Evolutionary Programming* pp. 151-161. 1997.