REFERENCES

[1] E. Aarts and J. Korst. *Simulated Annealing and Boltzmann Machines,*. Wiley, New York, NY, 1989.

[2] L. Altenberg. The evolution of evolvability in genetic programming. In K. E. Kinnear Jr., editor, *Advances in Genetic Programming.* MIT Press, 1994.

[3] L. Altenberg. The schema theorem and Price's theorem. In L. D. Whitley and M. D. Vose, editors, *Foundations of Genetic Algorithms*, volume 3, San Mateo, CA, 1995. Morgan Kaufmann.

[4] D. Andre. Learning and upgrading rules for an OCR system using genetic programming. In *Proceedings of the 1994 IEEE World Congress on Computational Intelligence*. IEEE Press, 1994.

[5] P. J. Angeline. *Evolutionary Algorithms and Emergent Intelligence*. PhD thesis, Ohio State University, 1993.

[6] P. J. Angeline. Genetic programming and emergent intelligence. In Kenneth E. Kinnear, Jr., editor, *Advances in Genetic Programming*, chapter 4. MIT Press, 1994.

[7] P. J. Angeline and J. B. Pollack. Coevolving high-level representations. In C. G. Langton, editor, *Artificial Life III, SFI Studies in the Sciences of Complexity*, volume XVII. Addison-Wesley, 1991.

[8] G. Guiho A.W. Biermann and Y. Kodratoff. An overview of automatic program construction techniques. In G. Guiho A.W. Biermann and Y. Kodratoff, editors, *Advances in Automatic Programming*, chapter 1, pages 3–30. Macmillan, New York, NY, 1988.

[9] T. Bäck, F. Hoffmeister, and H.-P. Schwefel. A survey of evolution strategies. In R. K. Belew and L. B. Booker, editors, *Proceedings of the Fourth International Conference on Genetic Algorithms*, pages 2–9, San Mateo, CA, 1991. Morgan Kaufmann.

[10] T. Bäck and H.-P. Schwefel. An overview of evolutionary algorithms for parameter optimization. *Evolutionary Computation*, 1(1):1–24, 1993.

[11] A. Barr and E. Feigenbaum. *Handbook of Artificial Intelligence, Ch. 10: Automatic Programming*. William Kauffman, Los Altos, 1982.

[12] R. K. Belew and L. B. Booker, editors. *Proceedings of the Fourth International Conference on Genetic Algorithms*. Morgan Kaufmann, San Mateo, CA, 1991.

[13] R. K. Belew, J. McInery, and N. Schraudolph. Evolving networks: Using the genetic algorithm with connectionist learning. In C. G. Langton, editor, *Artificial Life II, SFI Studies in the Sciences of Complexity*, volume X. Addison-Wesley, 1991.

[14] D. T. Campbell. On the evolutionary theory of knowledge. In Paul Levinson, editor, *In Pursuit of Truth: essays on the philosophy of Karl Popper on the occasion of his 80th birthday*, chapter 23. Humanities Press, 1982.

[15] H. Chen and N. Flann. Parallel simulated annealing and genetic algorithms: A space of hybrid methods. In Y. Davidor, H.-P. Schwefel, and R. Männer, editors, *Parallel Problem Solving From Nature – PPSN III, volume 866 of Lecture Notes in Computer Science*, Berlin, 1994. Springer-Verlag.

[16] N. L. Cramer. A representation for the adaptive generation of simple sequential programs. In J. J. Grefenstette, editor, *Proceedings of an International Conference on Genetic Algorithms and their Applications*, pages 183–187, Hillsdale, NJ, 24–26 July 1985. Carnegie Mellon University, Lawrence Erlbaum.

[17] Y. Davidor, H.-P. Schwefel, and R. Männer, editors. *Parallel Problem Solving from Nature — Proceedings 3rd Workshop PPSN II*. Springer Verlag, Berlin, Germany, 1994.

[18] L. D. Davis, editor. *Genetic Algorithms and Simulated Annealing*. Research Notes in Artificial Intelligence. Pitman Publishing and Morgan Kauffmann, Los Altos, CA, 1987.

[19] L. D. Davis, editor. *The Handbook of Genetic Algorithms*. Van Nostrand Reinhold, 1991.

[20] K. A. De Jong. *An Analysis of the Behavior of a Class of Genetic Adaptive Systems*. PhD thesis, University of Michigan, 1975. Dissertation Abstracts International 36(10), 5410B. (University Microfilms No. 76–9381).

[21] P. de Souza and S. Talukdar. Genetic algorithms in asynchronous teams. In R. K. Belew and L. B. Booker, editors, *Proceedings of the Fourth International Conference on Genetic Algorithms*, San Mateo, CA, 1991. Morgan Kaufmann.

[22] K. DeJong. Genetic algorithms are not function optimizers. In L. D. Whitley, editor, *Foundations of Genetic Algorithms*, San Mateo, CA, 1993. Morgan Kaufmann.

[23] P. D'haeseleer. Context preserving crossover in genetic programming. In *Proceedings of the 1994 IEEE World Congress on Computational Intelligence*, volume 1, pages 256–261. IEEE Press, 1994.

[24] B. D. Dunay, F. E. Petry, and W. P Buckles. Regular language induction with genetic programming. In *Proceedings of the 1994 IEEE World Congress on Computational Intelligence*. IEEE Press, 1994.

[25] R.E. Fikes and N. Nilsson. Strips: A new approach to the application of theorem proving to problem solving. *Artificial Intelligence*, 2(3):189–208, 1971.

[26] L. J. Fogel, A. J. Owens, and M. J. Walsh. *Artificial Intelligence Through Simulated Evolution*. John Wiley, New York, 1966.

[27] S. Forrest, editor. *Proceedings of the Fifth International Conference on Genetic Algorithms*. Morgan Kaufmann, San Mateo, CA, 1993.

[28] S. Forrest and M. Mitchell. The performance of genetic algorithms on Walsh polynomials: Some anomalous results and their explanation. In R. K. Belew and L. B. Booker, editors, *Proceedings of the Fourth International Conference on Genetic Algorithms*, San Mateo, CA, 1991. Morgan Kaufmann.

[29] G. J. Friedman. Digital simulation of an evolutionary process. *General Systems Yearbook*, 4:171–184, 1959.

[30] C. Fujiki and J. Dickinson. Using the genetic algorithm to generate Lisp source code to solve the Prisoner's dilemma. In J. J. Grefenstette, editor, *Genetic*

Algorithms and Their Applications: Proceedings of the Second International Conference on Genetic Algorithms, Hillsdale, NJ, 1987. Lawrence Erlbaum Associates.

[31] M. R. Garey and D. S. Johnson. *Computers and Intractibility: A Guide to the Theory of NP-Completeness*. W. H. Freeman, New York, 1979.

[32] D. E. Goldberg. *Genetic Algorithms in Search, Optimization, and Machine Learning*. Addison-Wesley, Reading, MA, 1989.

[33] D. E. Goldberg and K. Deb. A comparative analysis of selection schemes used in genetic algorithms. In G. J. E. Rawlins, editor, *Foundations of Genetic Algorithms*, volume 1, pages 69–93, San Mateo, CA, 1991. Morgan Kaufmann.

[34] D. E. Goldberg, B. Korb, and K. Deb. Messy genetic algorithms: Motivation, analysis and first results. *Complex Systems*, 4:415–444, 1989.

[35] D. E. Goldberg and R. Lingle. Alleles, loci, and the traveling salesman problem. In J. J. Grefenstette, editor, *Proceedings of an International Conference on Genetic Algorithms and their Applications*, pages 154–159. Lawrence Erlbaum, Hillsdale, NJ, 24–26 July 1985.

[36] J. J. Grefenstette, editor. *Proceedings of an International Conference on Genetic Algorithms and Their Applications*. Carnegie-Mellon University, Pittsburgh, PA, 1985.

[37] J. J. Grefenstette, editor. *Genetic Algorithms and Their Applications: Proceedings of the Second International Conference on Genetic Algorithms*. Lawrence Erlbaum Associates, Hillsdale, NJ, 1987.

[38] J. J. Grefenstette. Deception considered harmful. In L. D. Whitley, editor, *Foundations of Genetic Algorithms 2*, San Mateo, CA, 1993. Morgan Kauffman.

[39] J. J. Grefenstette and J. E. Baker. How genetic algorithms work: A critical look at implicit parallelism. In J. D. Schaffer, editor, *Proceedings of the Third International Conference on Genetic Algorithms*, San Mateo, CA, 1989. Morgan Kaufmann.

[40] J.J. Grefenstette. A system for learning control strategies with genetic algorithms. In J. David Schaffer, editor, *Proceedings of the Third International Conference on Genetic Algorithms*, pages 183–190, San Mateo, CA, June 4–7 1989. Morgan Kaufmann.

[41] S. Handley. Automatic learning of a detector for alpha-helices in protein sequences via genetic programming. In *Proceedings of the 5th International Conference on Genetic Algorithms, ICGA-93*, pages 271–278. Morgan Kaufmann, 1993.

[42] S. Handley. Automated learning of a detector for the cores of a-helices in protein sequences via genetic programming. In *Proceedings of the 1994 IEEE World Congress on Computational Intelligence*, volume 1, pages 474–479. IEEE Press, 1994.

[43] S. A. Harp and T. Samad. Genetic synthesis of neural network architecture. In L. D. Davis, editor, *Handbook of Genetic Algorithms*, pages 202–221. Van Nostrand Reinhold, 1991.

[44] I. Harvey. The puzzle of the persistent question marks: A case study of genetic drift. In S. Forrest, editor, *Proceedings of the Fifth International Conference on Genetic Algorithms*, pages 15–22, San Mateo, CA, 1993. Morgan Kaufmann.

[45] W. D. Hillis. Co-evolving parasites improve simulated evolution as an optimization procedure. *Physica D*, 42:228–234, 1990.

[46] J. H. Holland. *Adaptation in Natural and Artificial Systems*. MIT Press, Cambridge, MA, 1992. Second edition (First edition, 1975).

[47] H. Iba, H. de Garis, and T. Sato. Genetic programming using a minimum description length principle. In Kenneth E. Kinnear, Jr., editor, *Advances in Genetic Programming*, chapter 12, pages 265–284. MIT Press, 1994.

[48] H. Iba, T. Karita, H. de Garis, and T. Sato. System identification using structured genetic algorithms. In *Proceedings of the 5th International Conference on Genetic Algorithms, ICGA-93*, pages 279–286. Morgan Kaufmann, 1993.

[49] T. C. Jones. Crossover, macromutation, and population-based search. In L. J. Eshelman, editor, *Proceedings of the Sixth International Conference on Genetic Algorithms*, 1995. (to appear).

[50] T. C. Jones. *Evolutionary Algorithms, Fitness Landscapes and Search*. PhD thesis, University of New Mexico, Albuquerque, NM, March 1995.

[51] K. A. De Jong. Generation gaps revisited. In L. D. Whitley, editor, *Foundations of Genetic Algorithms*, San Mateo, CA, 1993. Morgan Kaufmann.

[52] A. Juels and M. Wattenberg. Stochastic hill climbing as baseline methods for evaluating genetic algorithms. Technical report, University of California, Berkely, September 1994.

[53] M. J. Keith and M. C. Martin. Genetic programming in C++: Implementation issues. In Kenneth E. Kinnear, Jr., editor, *Advances in Genetic Programming*, chapter 13. MIT Press, 1994.

[54] T. Kido, H. Kitano, and M. Nakashani. A hybrid search for genetic algorithms: Combining genetic algorithms, tabu search, and simulated annealing. In S. Forrest, editor, *Proceedings of the Fifth International Conference on Genetic Algorithms*, San Mateo, CA, 1993. Morgan Kaufmann.

[55] K. E. Kinnear, Jr. Evolving a sort: Lessons in genetic programming. In *Proceedings of the 1993 International Conference on Neural Networks*, volume 2. IEEE Press, 1993.

[56] K. E. Kinnear Jr. Generality and difficulty in genetic programming: Evolving a sort. In *Proceedings of the 5th International Conference on Genetic Algorithms, ICGA-93*, pages 287–294. Morgan Kaufmann, 1993.

[57] K. E. Kinnear, Jr. Alternatives in automatic function definition: A comparison of performance. In Kenneth E. Kinnear, Jr., editor, *Advances in Genetic Programming*, chapter 6. MIT Press, 1994.

[58] S. Kirkpatrick. Optimization by simulated annealing: quantitative studies. *Journal of Statistical Physics*, 234:975–986, 1984.

[59] S. Kirkpatrick, C. D. Gelatt, and M. P. Vecchi. Optimization by simulated annealing. *Science*, 220:671–680, May 1983.

[60] J. R. Koza. Hierarchical genetic algorithms operating on populations of computer programs. In N. S. Sridharan, editor, *Proceedings of the Eleventh International Joint Conference on Artificial Intelligence IJCAI-89,Detroit, MI*, volume 1, pages 768–774, Palo Alto, CA, 20-25 August 1989. Morgan Kaufmann.

[61] J. R. Koza. A genetic approach to econometric modeling. In *Sixth World Congress of the Econometric Society*, Barcelona, Spain, 1990. 27 August.

[62] J. R. Koza. Genetic programming: A paradigm for genetically breeding populations of computer programs to solve problems. Technical Report STAN-CS-90-1314, Department of Computer Science, Stanford University, Stanford, CA, 1990.

[63] J. R. Koza. Genetically breeding populations of computer programs to solve problems in artificial intelligence. In *Proceedings of the Second International Conference on Tools for AI, Herndon, Virginia, USA*, volume 1, pages 819–827. IEEE Computer Society Press, Los Alamitos, CA, USA, 6-9 November 1990.

[64] J. R. Koza. Hierarchical genetic algorithms operating on populations of computer programs. In *Proceedings of the Conference on Machine Learning*, pages 768–774, Cambridge, MA, 1990.

[65] J. R. Koza. Evolution and co-evolution of computer programs to control independent-acting agents. In Jean-Arcady Meyer and Stewart W. Wilson, editors, *From Animals to Animats: Proceedings of the First International Conference on Simulation of Adaptive Behavior, Paris. 24-28, September 1990*, pages 366–375, Cambridge, MA, 1991. The MIT Press.

[66] J. R. Koza. Evolving a computer program to generate random numbers using the genetic programming paradigm. In Rik Belew and Lashon Booker, editors, *Proceedings of the Fourth International Conference on Genetic Algo-*

rithms, pages 37–44, San Mateo, CA, USA, 1991. Morgan Kaufmann Publishers Inc.

[67] J. R. Koza. Genetic evolution and co-evolution of computer programs. In Christopher, Taylor, Charles, Langton, J. Doyne Farmer, and Steen Rasmussen, editors, *Artificial Life II*, volume X of *SFI Studies in the Sciences of Complexity*, pages 603–629. Addison-Wesley, Redwood City, CA, USA, 1991.

[68] J. R. Koza. Genetic evolution and co-evolution of computer programs. In C. G. Langton, C. Taylor, J. D. Farmer, and S. Rasmussen, editors, *Artificial Life II*, pages 603–629, Reading, MA, 1992. Addison-Wesley.

[69] J. R. Koza. *Genetic Programming: On the Programming of Computers by Means of Natural Selection*. MIT Press, Cambridge, MA, 1992.

[70] J. R. Koza. *Genetic Programming II: Automatic Discovery of Reusable Programs*. MIT Press, Cambridge, MA, 1994.

[71] J. R. Koza. Recognizing patterns in protein sequences using iteration-performing calculations in genetic programming. In *1994 IEEE World Congress on Computational Intelligence*. IEEE Press, 1994.

[72] J. R. Koza. Scalable learning in genetic programming using automatic function definition. In Kenneth E. Kinnear, Jr., editor, *Advances in Genetic Programming*. The MIT Press, Cambridge, MA, USA, 1994.

[73] J. R. Koza. Discussion of hill climbing and genetic search. Internet Machine Learning Digest, v7n14, August 1995.

[74] D. H. Kraft, F. E. Petry, W. P. Buckles, and T. Sadasivan. The use of genetic programming to build queries for information retrieval. In *Proceedings of the 1994 IEEE World Congress on Computational Intelligence*, pages 468–473. IEEE Press, 1994.

[75] K. J. Lang. Hill climbing beats genetic search on a boolean circuit synthesis problem of koza's. In A. Prieditis and S. Russell, editors, *Proceedings of the Twelth International Conference on Machine Learning*, pages 340–343, San Mateo, CA, July 9-12 1995. Morgan Kaufmann.

[76] W.B. Langdon. Genetic programming bibliography. Technical report, University College London, 1995.

[77] G. Liepins and M. D. Vose. Deceptiveness and genetic algorithm dynamics. In G. J. E. Rawlins, editor, *Foundations of Genetic Algorithms*, volume 1, pages 36–50, San Mateo, CA, 1991. Morgan Kaufmann.

[78] R. Männer and B. Manderick, editors. *Parallel Problem Solving from Nature — Proceedings 2nd Workshop PPSN II.* Elsevier Science, Brussels, Belgium, 1992.

[79] K. Mathias and L. D. Whitley. Genetic operators, the fitness landscape and the traveling salesman problem. In R. Männer and B. Manderick, editors, *Parallel Problem Solving From Nature*, volume 2, pages 219–228, Amsterdam, The Netherlands, 1992. Elsevier Science Publishers B.V.

[80] N. Metropolis, A. Rosenbluth, M. Rosenbluth, A. Teller, and E. Teller. Equation of state calculations by fast computing machines. *Journal of Chemical Physics*, 21:1087–1092, 1953.

[81] M. Mezard, G. Parisi, and M. Virasoro. *Spin Glass Theory and Beyond.* World Scientific, Singapore, 1987.

[82] M. Mitchell, S. Forrest, and J. H. Holland. The royal road for genetic algorithms: Fitness landscapes and GA performance. In F. J. Varela and P. Bourgine, editors, *Proceedings of the First European Conference on Artificial Life. Toward a Practice of Autonomous Systems*, pages 245–254, Cambridge, MA, 11–13 Dec 1992. MIT Press.

[83] M. Mitchell, J. H. Holland, and S. Forrest. When will a genetic algorithm outperform hill climbing? In J. D. Cowan, G. Tesauro, and J. Alspector (editors), *Advances in Neural Information Processing Systems 6.* San Mateo, CA: Morgan Kaufmann.

[84] S. Muggleton. *Inductive Logic Programming.* Academic Press, San Diego, CA, 1992.

[85] N. J. Nilsson. *Principles of Artificial Intelligence.* Tioga Publishing Co., Palo Alto, CA, 1980.

[86] H. Oakley. Two scientific applications of genetic programming: Stack filters and non-linear equation fitting to chaotic data. In Kenneth E. Kinnear, Jr., editor, *Advances in Genetic Programming*, chapter 17. MIT Press, 1994.

[87] I. M. Oliver, D. J. Smith, and J. R. C. Holland. A study of permutation crossover operators on the traveling salesman problem. In J. J. Grefenstette, editor, *Genetic Algorithms and their Applications: Proceedings of the Second International Conference on Genetic Algorithms*, pages 224–230, Hillsdale, NJ, 1987. Lawrence Erlbaum.

[88] U.-M. O'Reilly and F. Oppacher. An experimental perspective on genetic programming. In R Manner and B Manderick, editors, *Parallel Problem Solving from Nature 2*, pages 331–340, Brussels, Belgium, 1992. Elsevier Science.

[89] U.-M. O'Reilly and F. Oppacher. Program search with a hierarchical variable length representation: Genetic programming, simulated annealing and hill climbing. In Y. Davidor, H.-P. Schwefel, and R. Männer, editors, *Parallel Problem Solving From Nature – PPSN III, Vk olume 866 of Lecture Notes in Computer Science*, pages 397–406, Berlin, 1994. Springer-Verlag.

[90] U.-M. O'Reilly and F. Oppacher. Building block functions to confirm a building block hypothesis for genetic programming. Technical Report 95–02–007, Santa Fe Institute, Santa Fe, NM, February 1995.

[91] W. H. Press. *Numerical Recipes in C.* Cambridge Press, Cambridge, MA, 1992.

[92] N.J. Radcliffe. Formal analysis and random respectful recombination. In R.K. Belew and L.B. Booker, editors, *Proceedings of the Fourth International Conference on Genetic Algorithms*, San Mateo, CA, 1991. Morgan Kaufmann.

[93] L. De Raedt. *Interactive Theory Revision: An Inductive Logic Programming Approach.* Academic Press, San Diego, CA, 1992.

[94] L. De Raedt and M. Bruynooghe. Interactive theory revision. In R. Mihalski and G. Tecuci, editors, *Machine Learning, A Multistrategy Approach*, chapter 9. Morgan Kaufmann, San Mateo, CA, 1994.

[95] I. Rechenberg. *Evolutionsstrategie: Optimierung Techniquer Systeme nach Prinzipien der Biologischen Evolution*. Frommann-Holzboog Verlag, Stuttgart, 1973.

[96] Craig W. Reynolds. An evolved, vision-based behavioral model of coordinated group motion. In Meyer and Wilson, editors, *From Animals to Animats (the proceedings of Simulation of Adaptive Behaviour*. MIT Press, 1992.

[97] Craig W. Reynolds. The difficulty of roving eyes. In *Proceedings of the 1994 IEEE World Congress on Computational Intelligence*, pages 262–267. IEEE Press, June 1994.

[98] C. Rich and R. C. Waters. The programmer's apprentice. In P.H. Winston, editor, *Artificial Intelligence at MIT, Expanding Frontiers*, pages 166–195, Cambridge, MA, 1990. MIT Press.

[99] J. P. Rosca and D. H. Ballard. Learning by adapting representations in genetic programming. In *Proceedings of the 1994 IEEE World Congress on Computational Intelligence*. IEEE Press, 1994.

[100] J. P. Rosca and Dana H. Ballard. Hierarchical self-organization in genetic programming. In *Proceedings of the Eleventh International Conference on Machine Learning*. Morgan Kaufmann, 1994.

[101] E.D. Sacerdoti. Planning in a hierarchy of abstraction spaces. *Artificial Intelligence*, 5(2):115–135, 1974.

[102] S. Sankoff and J. B. Kruskal. *Time Warps, String Edits and Macromolecules: the theory and practice of sequence comparison*. Addison-Wesley, Reading,MA, 1983.

[103] J. D. Schaffer, editor. *Proceedings of the Third International Conference on Genetic Algorithms*. Morgan Kaufmann, San Mateo, CA, 1989.

[104] H.-P. Schwefel. *Evolutionsstrategie und numerische Optimierung*. PhD thesis, Technische Universität Berlin, Berlin, 1975.

[105] H.-P. Schwefel and R. Männer, editors. *Parallel Problem Solving from Nature — Proceedings 1st Workshop PPSN I*, volume 496 of *Lecture Notes in Computer Science*. Springer Berlin, Dortmund, Germany, 1990.

[106] C. G. Shaefer. The ARGOT strategy: Adaptive representation genetic optimizer technique. In J. J. Grefenstette, editor, *Proceedings of the Second International Conference on Genetic Algorithms*, pages 50–55, Hillsdale NJ, 1987. Lawrence Erlbaum Associates.

[107] E. V. Siegel. Competitively evolving decision trees against fixed training cases for natural language processing. In Kenneth E. Kinnear, Jr., editor, *Advances in Genetic Programming*, chapter 19. MIT Press, 1994.

[108] H. A. Simon. *Sciences of the Artificial*. MIT Press, Cambridge, MA, 1969.

[109] R. E. Smith. *Special Issue on Classifier Systems in Journal of Evolutionary Computation, volume 2, no. 2*. MIT Press, Cambridge, MA, 1994.

[110] S.J. Smith. Flexible learning of problem solving heuristics through adaptive search. In *Proceedings of 8th International Joint Conference on Artificical Intelligence*, San Mateo, CA, 1983. Morgan Kaufmann.

[111] P. Stadler. Landscapes and their correlation functions. Unpublished manuscript., July 1995.

[112] G. Steele. *Common LISP: the language*. Digital Press, Bedford, MA, 1990.

[113] G.J. Sussman. *A Computer Model of Skill Acquisition*. MIT Press, Cambridge, MA, 1975.

[114] G. Syswerda. A study of reproduction in generational and steady state algorithms. In G.E. Rawlins, editor, *Foundations of Genetic Algorithms*, San Mateo, CA, 1991. Morgan Kaufmann.

[115] W. A. Tackett. Greedy recombination and genetic search on the space of computer programs. In D. Whitley and M. Vose, editors, *Foundations of Genetic Algorithms 3*. Morgan Kaufmann, 1994.

[116] W. A. Tackett. *Recombination, Selection, and the Genetic Construction of Computer Programs*. PhD thesis, University of Southern California, Department of Electrical Engineering Systems, 1994.

[117] W. A. Tackett and A. Carmi. The unique implications of brood selection for genetic programming. In *Proceedings of the 1994 IEEE World Congress on Computational Intelligence*. IEEE Press, 1994.

[118] A. Teller. The evolution of mental models. In Kenneth E. Kinnear, Jr., editor, *Advances in Genetic Programming*, chapter 9. MIT Press, 1994.

[119] U. W. Thonemann. Finding improved simulated annealing schedules with genetic programming. In *Proceedings of the 1994 IEEE World Congress on Computational Intelligence*. IEEE Press, 1994.

[120] M. D. Vose. Modeling simple genetic algorithms. In L. D. Whitley, editor, *Foundations of Genetic Algorithms*, volume 2, pages 63–73, San Mateo, CA, 1993. Morgan Kaufmann.

[121] L. D. Whitley. The GENITOR algorithm and selection pressure: Why rank-based allocation of reproductive trials is best. In J. D. Schaffer, editor, *Proceedings of the Third International Conference on Genetic Algorithms*, pages 116–121, San Mateo, CA, June 4–7 1989. Morgan Kaufmann.

[122] L. D. Whitley. Fundamental principles of deception in genetic search. In G. J. E. Rawlins, editor, *Foundations of Genetic Algorithms*, volume 1, pages 221–241, San Mateo, CA, 1991. Morgan Kaufmann.

[123] S. W. Wilson. Classifier systems and the animat problem. *Machine Learning*, 2:199–228, 1987.

[124] M. Wineberg and F. Oppacher. A representation scheme to perform program induction in a canonical genetic algorithm. In Y. Davidor, H.-P. Schwefel, and R. Manner, editors, *Parallel Problem Solving From Nature – PPSN III, volume 866 of Lecture Notes in Computer Science*, pages 292–301, Berlin, 1994. Springer-Verlag.

[125] S. Wright. The roles of mutation, inbreeding, crossbreeding and selection in evolution. In D.F. Jones, editor, *Proceedings of the Sixth International Congress on Genetics, Vol 1*, pages 356–366, San Mateo, CA, June 4–7 1932. Morgan Kaufmann.

[126] B. T. Zhang and H. Mühlenbein. Synthesis of sigma-pi neural networks by the breeder genetic programming. In *Proceedings of IEEE International Conference on Evolutionary Computation (ICEC-94), World Congress on Computational Intelligence*, pages 318–323. IEEE Computer Society Press, New York, 1994.