

Список литературы

- [1] R.F. Albrecht, C.R. Reeves and N.C. Steele, editors, Proceedings of the International Conference on Artificial Neural Networks and Genetic Algorithms, Springer-Verlag, 1993.
- [2] C.G. Langton, editor, Artificial Life: the Proceedings of an Interdisciplinary Workshop on the Synthesis and Simulation of Living Systems, Redwood City, CA, 1989, Addison-Wesley, Workshop held September, 1987 in Los Alamos, New Mexico.
- [3] C.G. Langton et al., editors, Artificial Life II: Proceedings of the Workshop on Artificial Life, Redwood City, Calif., 1992, Addison-Wesley, Workshop held February, 1990 in Santa Fe, New Mexico.
- [4] C.G. Langton, editor, Artificial Life III: Proceedings of the Workshop on Artificial Life, Reading, MA, 1994, Addison-Wesley, Workshop held June, 1992 in Santa Fe, New Mexico.
- [5] L.D. Whitley and J.D. Schaffer, editors, International Workshop on Combinations of Genetic Algorithms and Neural Networks: COGANN-92, Los Alamitos, California, 1992, IEEE Computer Society Press.
- [6] G.J.E. Rawlins, editor, Proceedings of the Workshop on Foundations of Genetic Algorithms, San Mateo, California, 1991, Morgan Kaufmann.
- [7] D.L. Whitley, editor, Proceedings of the Workshop on Foundations of Genetic Algorithms, San Mateo, California, 1993, Morgan Kaufmann, The second workshop on Foundations of Genetic Algorithms (FOGA) was held July 26-29, 1992 in Vail, Colorado.
- [8] J.J. Grefenstette, editor, Proceedings of the First International Conference on Genetic Algorithms and their Applications, Pittsburgh, Pa, 1985, Lawrence Erlbaum Associates.
- [9] J.J. Grefenstette, editor, Proceedings of the Second International Conference on Genetic Algorithms and their Applications, Hillsdale, New Jersey, 1987, Massachusetts Institute of Technology, Cambridge, MA, Lawrence Erlbaum Associates.
- [10] J.D. Schaffer, editor, Proceedings of the Third International Conference on Genetic Algorithms, San Mateo, California, 1989, George Mason University, Morgan Kaufmann.
- [11] R.K. Belew and L.B. Booker, editors, Proceedings of the Fourth International Conference on Genetic Algorithms, San Mateo, CA, 1991, University of California, San Diego, Morgan Kaufmann.
- [12] S. Forrest, editor, Proceedings of the Fifth International Conference on Genetic Algorithms, San Mateo, CA, 1993, University of Illinois at Urbana Champaign, Morgan Kaufmann.
- [13] H.P. Schwefel and R. Männer, editors, Proceedings of the First Conference on Parallel Problem Solving from Nature, volume 496 of *Lecture Notes in Computer Science*, Dortmund, Germany, 1991, Springer-Verlag.
- [14] R. Männer and B. Manderick, editors, Proceedings of the Second Conference on Parallel Problem Solving from Nature, Brussels, Belgium, Amsterdam, 1992, Elsevier.
- [15] D.H. Ackley, Proceedings of the First International Conference on Genetic Algorithms and their Applications, edited by J.J. Grefenstette, pp. 121–135, Hillsdale, New Jersey, 1985, Lawrence Erlbaum Associates.
- [16] D.H. Ackley, A Connectionist Machine for Genetic Hillclimbing (Kluwer Academic Publishers, Boston, MA, 1987).
- [17] D.H. Ackley and M.L. Littman, Artificial Life II, edited by C.G. Langton et al., pp. 487–509, Addison, 1992.
- [18] E. Alba, J. Aldana and J. Troya, Proceedings of the International Conference on Artificial Neural Nets and Genetic Algorithms, edited by R. Albrecht, C. Reeves and N. Steele, pp. 683–690, Springer-Verlag, 1993.

- [19] P.J. Angeline, G.M. Saunders and J.B. Pollack, IEEE Transactions on Neural Networks 5 (1994) 54.
- [20] C.A. Ankenbrandt, B.P. Buckles and F.E. Petry, Pattern Recognition Letters 11 (1990) 285.
- [21] P. Arena et al., Proceedings of the International Conference on Artificial Neural Nets and Genetic Algorithms, edited by R. Albrecht, C. Reeves and N. Steele, pp. 670–674, Springer-Verlag, 1993.
- [22] S. Austin, Proceedings of AIAA Aerospace VIII, Baltimore, MD, 1991.
- [23] N. Ball, Proceedings of the IEEE Workshop on Genetic Algorithms, Simulated Annealing and Neural Networks, University of Glasgow, Scotland, 1990.
- [24] N.R. Ball, Proceedings of the International Conference on Artificial Neural Nets and Genetic Algorithms, pp. 712–718, 1993.
- [25] R.D. Beer and J.C. Gallagher, Adaptive Behavior 1 (1992).
- [26] R.K. Belew, Proceedings of the Third International Conference on Genetic Algorithms, edited by J.D. Schaffer, pp. 34–41, ICGA89, Morgan Kaufmann, 1989.
- [27] University of California at San Deigo preprint, (1989).
- [28] University of California, San Diego preprint, (1989), Submitted to Neural Information Processing Systems 1989.
- [29] University of California at San Diego preprint, (1990).
- [30] Y. Bengio, S. Bengio and J. Cloutier, Proceedings of the International Joint Conference on Neural Networks, p. 969, 1991.
- [31] A. Bergman, Neural Networks 1 (1988) 75.
- [32] A. Bergman, Lectures in Complex Systems: Proceedings of the 1989 Complex Systems Summer School, edited by E. Jen, Santa Fe, 1989.
- [33] A. Bergman and M. Kerszberg, Proceedings of IEEE Conference on Neural Networks, volume II, pp. 63–70, San Diego, CA, 1987.
- [34] P. Bessiere, Toward a Practice of Autonomous Systems: Proceedings of the First European Conference on Artificial Life, edited by F. Varela and P. Bourguine, pp. 310–314, Cambridge, MA, USA, 1992, MIT Press.
- [35] J. Bishop et al., Proceedings of the International Conference on Artificial Neural Networks and Genetic Algorithms, pp. 719–725, 1993.
- [36] S. Bornholdt and D. Graudenz, Neural Networks 5 (1992) 327, DESSY 91-046, Deutsches Elektronen-Synchrotron, Hamburg, Germany, MAY 1991.
- [37] Lawrence Berkeley Laboratory, University of California preprint, (1993).
- [38] P. de la Brassinne, Bulletin Scientifique de l'Association des Ingenieurs Electriciens sortis de l'Institut Electrotechnique Montefiore 106 (1993) 41.
- [39] H. Braun and J. Weisbrod, Proceedings of the International Conference on Artificial Neural Networks and Genetic Algorithms, edited by R. Albrecht, C. Reeves and N. Steele, pp. 25–32, Springer-Verlag, 1993.
- [40] F. Brill, D. Brown and W. Martin, IEEE Transactions on Neural Networks 3 (1992) 324.
- [41] I.L. Bukatova, Proceedings of the RNNS/IEEE Symposium on Neuroinformatics and Neurocomputers. I (1992) 467.
- [42] W. Calvin, Nature 330 (1988) 33.

- [43] N.V. Philips preprint, (1991).
- [44] T.P. Caudell, Proceedings of the International Joint Conference on Neural Networks, volume I, pp. 667–675, 1990.
- [45] T.P. Caudell and C.P. Dolan, Proceedings of the Third International Conference on Genetic Algorithms, pp. 370–374, 1989.
- [46] M. Caudill, AI Expert (1991) 28.
- [47] D.J. Chalmers, Proceedings of the 1990 Connectionist Summer School, edited by D. Touretsky et al., pp. 81–90, Morgan Kaufmann, 1990.
- [48] E. Chang and R. Lippmann, Neural Information Processing Systems – NIPS 3, pp. 797–803, Morgan Kaufmann, 1991.
- [49] Q. Chen and W.A. Weigand, Proceedings of the International Joint Conference on Neural Networks, pp. IV–519 – IV–524, 1992.
- [50] C.H. Chu and C.R. Chow, World Congress on Neural Networks, pp. IV744 – IV747, 1993.
- [51] R. Collins and D. Jefferson, Proceedings of the Conference on Parallel Problem Solving from Nature, pp. 259–263, 1990.
- [52] M. Compiani et al., Classifier systems and neural networks, Parallel Architectures and Neural Networks, edited by C. E.R., pp. 33–43, World Scientific Press, Singapore, 1989.
- [53] R. Das and D. Whitley, Proceedings of the Conference on Combinations of Genetic Algorithms and Neural Networks, pp. 97–107, 1992.
- [54] D. Dasgupta and D. McGregor, Proceedings of the International Conference on Combinations of Genetic Algorithms and Neural Networks, pp. 87–96, 1992.
- [55] L. Davis, Proceedings of the Workshop on Neural Information Processing Systems 1, pp. 49–56, 1988.
- [56] L. Davis, Proceedings of the Third International Conference on Genetic Algorithms, pp. 61–69, 1989.
- [57] L. Davis, Proceedings of the 3rd International Conference on Genetic Algorithms, pp. 375–378, 1989.
- [58] E. DeRouin and J. Brown, Proceedings of the SPIE - The International Society for Optical Engineering 1710, pt.1 (1992) II.
- [59] P. Dessert, Proceedings of the SPIE - The International Society for Optical Engineering 1710, pt.1 (1992) II.
- [60] N. Dodd, Optimization of network structure using genetic techniques, Applications of Artificial Intelligence in Engineering VI, edited by G. Rzevski and R.A. Adey, 1991.
- [61] N. Dodd, D. Macfarlane and C. Marland, Proceedings of Transputing '91, 1991.
- [62] C.P. Dolan and M.G. Dyer, Proceedings of the Second International Conference on Genetic Algorithms, edited by J.J. Grefenstette, pp. 123–131, Hillsdale, New Jersey, 1987, Lawrence Erlbaum Associates.
- [63] AI Laboratory, University of California, Los Angeles preprint, (1987).
- [64] S. Dominic et al., Proceedings of the International Joint Conference on Neural Networks, pp. II–71 – II–76, 1992.
- [65] W.B. Dress, Proceeding of the IEEE First Annual International Conference on Neural Networks, 1987.

- [66] W.B. Dress, 1989.
- [67] W.B. Dress, Electronic Life and Synthetic Intelligent Systems (Instrumentation and Controls Division, Oak Ridge Natuional Laboratory, 1990).
- [68] W.B. Dress, Proceedings of Emergence and Evolution of Life-Forms, 1990.
- [69] W.B. Dress and J.R. Knisley, 1987 IEEE Conference on Systems, Man, and Cybernetics, 1987.
- [70] R.C. Eberhart and R.W. Dobbins, Proceedings of the International Joint Conference on Neural Networks, pp. 1758–1763, 1991.
- [71] R.C. Eberhart, Proceedings of the Conference on Combinations of Genetic Algorithms and Neural Networks, pp. 169–183, 1992.
- [72] E. G.M., Neural Darwinism: The Theory of Neuronal Group Selection (Basic Books, New York, 1987).
- [73] J. Elias, Proceedings of the SPIE - The International Society for Optical Engineering 1709, pt.1 (1992) 338.
- [74] J.G. Elias, Proceedings of the Conference on Combinations of Genetic Algorithms and Neural Networks, pp. 38–54, 1992.
- [75] J. Falcon, Artificial Neural Networks, IWANN91, Granada, edited by A. Prieto, pp. 204–211, Lecture notes in Computer Science 540, Springer Verlag, 1991.
- [76] D.J. Farmer, N.H. Packard and A.S. Perelson, Physica 22D (1986) 187.
- [77] A. Fekadu, E. Hines and J. Gardner, Artificial Neural Networks and Genetic Algorithms, edited by R. Albrecht, C. Reeves and N. Steele, pp. 691–698, Springer-Verlag, 1993.
- [78] D.S. Feldman, Proceedings of the Fifth International Conference on Genetic Algorithms, 1993.
- [79] A.J. Fenanzo Jr, SIGART Newsletter (1986) 22.
- [80] D. Fielder and C. Alford, Proceedings of the Conference on Artificial Neural Networks and Genetic Algorithms, edited by R. Albrecht, C. Reeves and N. Steele, p. 731, ANNGA93, Springer-Verlag, 1993.
- [81] D. Floreano, Patterns of interactions in ecosystems of neural networks, Master’s thesis, Neural Computation, Dept of Comp Sci., Univ of Stirling, 1992.
- [82] D. Floreano, Cognitive technology laboratory, Trieste preprint 93-01 (1993).
- [83] D. Floreano, O. Miglino and D. Parisi, Emerging complex behaviours in ecosystems of neural networks, 1991.
- [84] D. Floreano and F. Mondada, Proceedings of the Conference on Simulation of Adaptive Behavior, 1994.
- [85] D. Fogel, L. Fogel and V. Porto, Biological Cybernetics 63 (1990) 487.
- [86] D. Fogel and P. Simpson, Proceedings of the International Conference on Neural Networks, ICNN93, 1993.
- [87] D.B. Fogel, Proceedings of the American Power Conference, pp. 875–879, IEEE, 1993.
- [88] D.B. Fogel, Proceedings of the International Conference on Neural Networks, 1993.
- [89] United States preprint, (1993).
- [90] J. Fontanari and R. Meir, Network 2 (1991) 353.
- [91] B. Freisleben and . Härtfelder, Artificial Neural Nets and Genetic Algorithms, edited by R. Albrecht, C. Reeves and N. Steele, pp. 392–399, Springer-Verlag, 1993.

- [92] B. Fritzke, International Computer Science Institute preprint TR-93-026 (1993).
- [93] B. Fullmer and R. Miikkulainen, Toward a Practice of Autonomous Systems. Proceedings of the First European Conference on Artificial Life, edited by F. Varela and P. Bourguine, Cambridge, MA, USA, 1992, MIT Press.
- [94] J.C. Gallagher and R.D. Beer, From Animals to Animats, Proceedings of the Second International Conference on Simulation of Adaptive Behaviour (SAB 92), edited by H. Roitblat, J.A. Meyer and S. Wilson, The MIT Press, Cambridge, MA, 1992.
- [95] G.W. Game and C.D. James, IEE Colloquium on 'High Accuracy Platform Control in Space', volume Digest No. 1993/148, pp. 3/1–3/3, IEE, London, 1993.
- [96] Center for AI, George Mason Univ, Virginia preprint, (1989).
- [97] H. de Garis, Genetic Programming: Building Nanobrain with Genetically Programmed Neural Network Modules. (CADEPS AI Research Unit, University Libre de Bruxelles, CP 194/7, B-1050 Brussels, Belgium, 1990).
- [98] H. de Garis, Proceedings of INNC-90 2 (1990) 1036.
- [99] H. de Garis, Proceedings of the 9th European Conference on Artificial Intelligence, pp. 204–206, Stockholm, Sweden, 1990.
- [100] H. de Garis, Proceedings of the International Joint Conference on Neural Networks, pp. III–547 – III–552, IJCNN-92, 1992.
- [101] H. de Garis, Toward a Practice of Autonomous Systems. Proceedings of the First European Conference on Artificial Life, edited by F. Varela and P. Bourguine, Cambridge, MA, USA, 1992, MIT Press.
- [102] H. de Garis, Artificial Neural Nets and Genetic Algorithms, pp. 699–705, ANNGA93, 1993.
- [103] H. de Garis, Proceedings of the World Congress on Neural Networks, pp. II447 – II450, WCNN93, 1993.
- [104] A. Gierer, Biological Cybernetics 59 (1988) 13.
- [105] J. Gonzalez-Seco, Proceedings of the International Joint Conference on Neural Networks, pp. I–835 – I–840, IJCNN-92, 1992.
- [106] Laboratoire de l'Informatique du Parallélisme, Ecole Normale Supérieure de Lyon preprint, (1992).
- [107] F. Gruau, Proceedings of COGANN-92 International Workshop on Combinations of Genetic Algorithms and Neural Networks, edited by L. Whitley and J. Schaffer, pp. 55–74, IEEE Computer Society Press, 1992.
- [108] F. Gruau, Cellular encoding of genetic neural networks i. theoretical properties, submitted to evolutionary computation, 1992.
- [109] F. Gruau, European Symposium on Artificial Neural Networks, 1993.
- [110] F. Gruau, Proceedings of the Fifth International Conference on Genetic Algorithms, 1993.
- [111] F. Gruau, Genetic micro programming of neural networks, Advances in Genetic Programming, edited by K. Kinnear, MIT Press, 1994.
- [112] F. Gruau, Neural Network Synthesis Using Cellular Encoding and the Genetic Algorithm, PhD thesis, PhD Thesis, Ecole Normale Supérieure de Lyon, 1994, anonymous ftp: lip.ens-lyon.fr (140.77.1.11) directory pub/Rapports/PhD file PhD94-01-E.ps.Z (english) PhD94-01-F.ps.Z (french).

- [113] F. Gruau and D. Whitley, Laboratoire de l'Informatique du Parallelisme, Ecole Normal Supérieure de Lyon preprint 93-04 (1993).
- [114] F. Gruau and D. Whitley, *Evolutionary Computation* 1 (1993).
- [115] Laboratoire de l'Informatique du Parallélisme, Ecole Normale Supérieure de Lyon preprint, (1993).
- [116] F. Gruau, IEE Colloquium on Grammatical Inference: Theory, Applications and Alternatives (Digest No.092) (1993) 17/1.
- [117] United States preprint, (1992).
- [118] Z. Guo and R. Uhrig, *Proceedings of the Workshop on Combinations of Genetic Algorithms and Neural Networks*, pp. 223–234, COGANN92, 1992.
- [119] K.U. Höffgen, H. Siemon and A. Ultsch, *Proceedings of the Conference on Parallel Problem Solving from Nature*, edited by H.P. Schwefel and R. Männer, pp. 302–306, *Lecture notes in Computer Science* 496, Springer Verlag, 1991.
- [120] P.J.B. Hancock, Mini-Symposium on Neural Network Computation, Rank Prize Funds, Broadway: unpublished, 1989.
- [121] P.J.B. Hancock, *Proceedings of the IEEE Workshop on Genetic Algorithms, Simulated Annealing and Neural Networks*, University of Glasgow, Scotland, 1990.
- [122] P.J.B. Hancock, *Coding Strategies for Genetic Algorithms and Neural Nets*, PhD thesis, Department of Computing Science and Mathematics, University of Stirling, 1992.
- [123] P.J.B. Hancock, *Parallel Problem Solving from Nature 2*, edited by R. Männer and B. Manderick, pp. 441–450, Elsevier, North Holland, 1992.
- [124] P.J.B. Hancock, *Proceedings of the International Conference on Artificial Neural Networks*, Brighton, edited by I. Aleksander and J. Taylor, pp. 991–994, Elsevier, 1992.
- [125] P.J.B. Hancock, *Proceedings of COGANN workshop, IJCNN*, Baltimore, edited by D. Whitley, IEEE, 1992.
- [126] P.J.B. Hancock and L.S. Smith, *Proceedings of the Conference on Parallel Problem Solving from Nature*, edited by H.P. Schwefel and R. Männer, pp. 292–296, *Lecture notes in Computer Science* 496, Springer Verlag, 1991.
- [127] S.A. Harp, T. Samad and G. A., Honeywell CSDD preprint TR CSDD-89-I4852-2 (1989).
- [128] S.A. Harp, T. Samad and A. Guha, *Proceedings of the Third International Conference on Genetic Algorithms*, edited by J. Schaffer, pp. 360–369, Morgan Kaufmann, 1989.
- [129] S.A. Harp, T. Samad and A. Guha, *Neural Information Processing Systems 2*, edited by D. Touretzky, 1989.
- [130] S.A. Harp and T. Samad, *Proceedings of the American Power Conference* 54 pt 2 (1992) 1138.
- [131] S.A. Harp and T. Samad, *Proceedings of the International Joint Conference on Neural Networks*, volume I, pp. 341–346, 1991.
- [132] S. Harp and T. Samad, *Handbook of Genetic Algorithms*, edited by L. Davis, pp. 202–221, Van Nostrand Reinhold, 1991.
- [133] I. Harvey, P. Husbands and D. Cliff, *Cognitive Science*, university of Sussex preprint CSRP 267 (1993).
- [134] M.H. Hassoun and J. Song, *Proceedings of the World Congress on Neural Networks*, pp. III437 – III444, WCNN93, 1993.

- [135] J. Heistermann, Parallel Problem Solving from Nature, edited by H.P. Schwefel and R. Männer, pp. 297–301, Lecture notes in Computer Science 496, Springer Verlag, 1991.
- [136] J. Heistermann, Parallel Computing 12 (1989).
- [137] J. Heistermann, Parallel Processing in Neural Systems and Computers, edited by R. Eckmiller, G. Hartmann and G. Hauske, pp. 165–168, Elsevier Science Publishers, 1990.
- [138] J. Heistermann, CompEuro 1992 Proceedings. Computer Systems and Software Engineering, edited by P. Dewilde and J. Vandewalle, pp. 459–464, Los Alamitos, CA, USA, 1992, IEEE Comput. Soc. Press.
- [139] G.E. Hinton and S.J. Nowlan, Complex Systems 1 (1987) 495.
- [140] K. Hintz and J. Spofford, Proceedings of the 5th IEEE International Symposium on Intelligent Control, edited by A. Meystel, pp. 479–484, Los Alamitos, CA, 1990, IEEE Computer Society Press.
- [141] A. Ho and G. Fox, Parallel Computing: Problems, Methods and Applications. Selection of Papers Presented at the Conference on Parallel Computing: Achievements, Problems and Prospects, edited by P. Messina and A. Murli, pp. 499–507, Elsevier, Amsterdam, Netherlands, 1992.
- [142] O. Holland and M. Snaith, IEE Proceedings Part F: Radar and Signal Processing 139 (1992) 431.
- [143] V. Honavar and L. Uhr, Connection Science 1 (1989) 139.
- [144] V. Honavar and L. Uhr, Proceedings of the 1988 Connectionist Models Summer School, Morgan Kaufmann, Palo Alto, 1989.
- [145] V. Honavar and L. Uhr, Proceedings of the Tenth International Joint Conference on Artificial Intelligence, Morgan Kaufmann, Palo Alto, 1989.
- [146] V. Honavar and L. Uhr, Information Sciences 70 (1993) 75.
- [147] R.G. Hoptroff, T.J. Hall and R.E. Burge, 1990 International Joint Conference on Neural Networks - IJCNN 90, volume 2, pp. 735–740, IEEE, New York, 1990.
- [148] L. Hsu and Z. Wu, Proceedings of COGANN-92 International Workshop on Combinations of Genetic Algorithms and Neural Networks, edited by L. Whitley and J. Schaffer, pp. 235–247, IEEE Computer Society Press, 1992.
- [149] R. Huang, CC-AI 9(2-3) (1992) 225.
- [150] P. Husbands, I. Harvey and D.T. Cliff, University of Sussex, School of Cognitive and Computing Sciences preprint CSRP265 (1992).
- [151] Y. Ichikawa, Proceedings of the IEEE International Conference on Intelligent Motion Control, pp. 239–245, IEEE, 1990.
- [152] C. Jacob and J. Rehder, Artificial Neural Nets and Genetic Algorithms, edited by R. Albrecht, C. Reeves and N. Steele, pp. 72–79, Springer-Verlag, 1993.
- [153] D. Janson and J. Frenzel, Journal of Systems Engineering 2 (1992) 272.
- [154] D. Jefferson et al., Computer Science, UCLA preprint UCLA-AI-90-09 (1990).
- [155] A. Jones, Neural Computing and Applications 1 (1993) 32.
- [156] A. Jones and D. MacFarlane, Neural Computing and Applications 1 (1993) 256.
- [157] N. Kadaba and K.E. Nygard, Improving the Performance of Genetic Algorithms in Automated Discovery of Parameters (Dept. of SC and OR, North Dakota State University, 1990), Draft.

- [158] H. Kargupta and R.E. Smith, Proceedings of the Fourth International Conference on Genetic Algorithms, pp. 370–376, 1991.
- [159] M. Karim and S. Rivera, Proceedings of the American Control Conference 3 (1992) 1931.
- [160] N. Karunanithi, R. Das and D. Whitley, Proceedings of COGANN-92 International Workshop on Combinations of Genetic Algorithms and Neural Networks, edited by L. Whitley and J. Schaffer, pp. 134–145, IEEE Computer Society Press, 1992.
- [161] S. Kauffman and R. Smith, Physica D 22 (1986) 68.
- [162] R. Keesing and D. Stork, Advances in Neural Information Processing Systems 3, edited by R. Lippmann, J. Moody and D. Touretzky, pp. 804–810, Morgan Kaufmann, 1991.
- [163] M. Kerszberg, Genetic and Epigenetic Factors in Neural Circuit Wiring (preliminary) (Institut für Festkörperforschung der).
- [164] M. Kerszberg and A. Bergman, The evolution of data processing abilities in competing automata, Computer Simulation in Brain Science, Copenhagen, Denmark, edited by R. Cotterill, pp. 249–259, Cambridge University Press, 1986.
- [165] K. Kirby, Intraneuronal Dynamics and Evolutionary Learning, PhD thesis, Dept. of Computer Science, Wayne State University, 1988.
- [166] K. Kirby and M. Conrad, Physica D 22 (1986) 205.
- [167] K. Kirby, M. Conrad and R. Kampfner, SUBMITTED TO Bull. Math. Biol., 1989.
- [168] H. Kitano, Proceedings of the 8th National Conference on Artificial Intelligence (AAAI-90), pp. 789–795, PROC AAAI-90, MIT Press, Cambridge, 1990.
- [169] H. Kitano, Complex Systems 4 (1990) 461.
- [170] Carnegie Mellon University preprint, (1992).
- [171] H. Kitano, Journal of the Society of Instrument and Control Engineers 32 (1993) 31.
- [172] M. Kouchi, H. Inayoshi and T. Hoshino, Journal of Japanese Society for Artificial Intelligence 7 (1992) 509.
- [173] J.R. Koza, Genetic Programming: On the Programming of Computers by Means of Natural Selection (MIT Press, Cambridge, Mass., 1992).
- [174] J.R. Koza and J.P. Rice, Proceedings of the International Joint Conference on Neural Networks, volume II, pp. 397–404, IJCNN-91, 1991.
- [175] K. Krishnakumar, Proceedings of COGANN-92 International Workshop on Combinations of Genetic Algorithms and Neural Networks, edited by L. Whitley and J. Schaffer, pp. 146–168, IEEE Computer Society Press, 1992.
- [176] L. Kwiatkowski and J. Stromboni, Artificial Neural Nets and Genetic Algorithms, edited by R. Albrecht, C. Reeves and N. Steele, pp. 706–711, Springer-Verlag, 1993.
- [177] W. Lai and G. Coghill, Proceedings of the International Joint Conference on Neural Networks, pp. IV–618 – IV–623, IJCNN-92, 1992.
- [178] F. Lange, "über den zusammenhang zwischen komplexität und generalisierungsfähigkeit neuronaler netze, Diplomarbeit, Universität Karlsruhe, Institut für Logik, Komplexität und Deduktionssysteme, 1993, Beyond Soft-Weight-Sharing: Soft-Entropy-Minimization.
- [179] S. Lehar and J. Weaver, Proceedings of the IEEE International Conference on Neural Networks, pp. 97–104, IEEE Press, 1987.
- [180] M.A. Lewis, A.H. Fagg and A. Solidum, Proceedings of IEEE International Conference on Robotics and Automation, volume 3, pp. 2618–2623, Piscataway, NJ, USA, 1992, IEEE.

- [181] K. Lindgren et al., Proceedings of COGANN-92 International Workshop on Combinations of Genetic Algorithms and Neural Networks, edited by L. Whitley and J. Schaffer, pp. 75–86, IEEE Computer Society Press, 1992.
- [182] K. Lindgren et al., Artificial Neural Nets and Genetic Algorithms, edited by R. Albrecht, C. Reeves and N. Steele, pp. 55–62, Springer-Verlag, 1993.
- [183] M.L. Littman and D.H. Ackley, Proceedings of the Fourth International Conference on Genetic Algorithms, pp. 136–142, 1991.
- [184] H. Mühlenbein, Parallel Computing 14 (1990) 249.
- [185] H. Mühlenbein, Parallel computing '91 Proceedings of the International Conference, edited by D.J. Evans, G.R. Joubert and H. Liddell, pp. 91–103, Amsterdam, 1992, North-Holland Publishing Co.
- [186] H. Mühlenbein and J. Kindermann, The dynamics of evolution and learning: Towards genetic neural networks, Connectionism in Perspective, edited by R. Pfeifer et al., pp. 173–197, Elsevier Science Publishers B.V. (North-Holland), 1989.
- [187] R.J. Machado and A.F. da Rocha, Evolutive Fuzzy Neural Networks (IEEE, Piscataway, NJ, 1992).
- [188] Y. Maeda and Y. Kanata, Engineering & Technology 10 (1992) 1.
- [189] M. Mandischer, Representation and evolution of neural networks, Artificial Neural Nets and Genetic Algorithms Proceedings of the International Conference at Innsbruck, Austria, edited by R. Albrecht, C. Reeves and N. Steele, pp. 643–649, Springer, Wien and New York, 1993.
- [190] V. Maniezzo, Artificial Neural Nets and Genetic Algorithms, edited by R. Albrecht, C. Reeves and N. Steele, pp. 635–643, Springer-Verlag, 1993.
- [191] V. Maniezzo, IEEE Transactions on Neural Networks 5 (1994) 39.
- [192] B. Maricic and Z. Nikolov, Proceedings of the International Joint Conference on Neural Networks, pp. I–102 – I–105, Washington, DC, 1990.
- [193] F. Marin and F. Sandoval, New Trends in Neural Computation, Springer-Verlag (1993) 179.
- [194] L. Martí, Proceedings of the International Joint Conference on Neural Networks, pp. II–221 – II–226, 1992.
- [195] L. Martí, Proceedings of the International Joint Conference on Neural Networks, pp. IV–537 – IV–542, IJCNN-92, 1992.
- [196] E. Mayer, Genetic algorithm approach to neural network optimization, Masters thesis, University of Toledo, Toledo, Ohio, 1993.
- [197] J. Maynard Smith, Nature 329 (1987) 761.
- [198] J.R. McDonnell and D.E. Waagen, Proceedings of SPIE - The International Society for Optical Engineering 1766 (1992) 690.
- [199] J.R. McDonnell and D.E. Waagen, Proceedings of the World Congress on Neural Networks 93, pp. III564 – III567, WCNN93, 1993.
- [200] J.R. McDonnell and D.E. Waagen, Proceedings of the American Power Conference, pp. 863–868, IEEE, 1993.
- [201] J.R. McDonnell and D.E. Waagen, IEEE Transactions on Neural Networks 5 (1994) 24.
- [202] D.R. McGregor, M.O. Odetayo and D. Dasgupta, Proceedings of the 1992 IEEE International Symposium on Intelligent Control, pp. 521–525, IEEE, 1992.

- [203] M. McInerney and A.P. Dhawan, preprint from the Author; don't "no" about publication.
- [204] F. Menczer and R. Belew, Latent energy environments, Plastic Individuals in Evolving Populations, edited by R. Belew and M. Mitchell, Santa Fe Institute Studies in the Sciences of Complexity, Addison Wesley, Reading, MA, 1994, (in press).
- [205] F. Menczer and R. Belew, Artificial Life IV, edited by R. Brooks and P. Maes, Cambridge, MA, 1994, MIT Press.
- [206] F. Menczer and D. Parisi, C.N.R.Rome preprint PCIA-90-06 (1990).
- [207] F. Menczer and D. Parisi, Network: Computation in Neural Systems 3 (1992) 423.
- [208] F. Menczer and D. Parisi, Toward a Practice of Autonomous Systems. Proceedings of the First European Conference on Artificial Life, edited by F. Varela and P. Bourguine, pp. 337–345, Cambridge, MA, USA, 1992, MIT Press.
- [209] F. Menczer and D. Parisi, Biological Cybernetics 66 (1992) 283.
- [210] . Merelo et al., Neural Network World (1993) 175.
- [211] O. Miglino, R. Pedone and D. Parisi, Artificial Neural Nets and Genetic Algorithms, edited by R. Albrecht, C. Reeves and N. Steele, pp. 588–594, Springer-Verlag, 1993.
- [212] S. Mikami, H. Tano and Y. Kakazu, Self-Organisation and Life, From Simple Rules to Global Complexity, Proceedings of the Second European Conference on Artificial Life, pp. 758–767, MIT Press, Cambridge, 1993.
- [213] G. Miller, P. Todd and S. Hegde, Proceedings of the Third International Conference on Genetic Algorithms, edited by J. Schaffer, pp. 379–384, Morgan Kaufmann, 1989.
- [214] M. Mitchell and S. Forrest, Artificial Life (1993).
- [215] R. Mitchell, J. Bishop and W. Low, Artificial Neural Nets and Genetic Algorithms, edited by R. Albrecht, C. Reeves and N. Steele, pp. 664–669, Springer-Verlag, 1993.
- [216] E. Mjolsness and D.H. Sharp, Proceedings of the American Institute of Physics (Special Issue on Neural Nets), 1986.
- [217] preprint, (1988).
- [218] E. Mjolsness, D.H. Sharp and B.K. Alpert, Genetic Parsimony in Neural Nets (, 1988) .
- [219] E. Mjolsness, D.H. Sharp and B.K. Alpert, Advances in Applied Mathematics 10 (1989).
- [220] D. Montana and L. Davis, Proceedings of the Eleventh International Joint Conference on Artificial Intelligence, pp. 762–767, San Mateo, CA: Morgan Kaufmann., 1989.
- [221] D.E. Moriarty and R. Miikkulainen, Department of Computer Sciences, The University of Texas at Austin preprint AI93-206 (1993).
- [222] D.E. Moriarty and R. Miikkulainen, Department of Computer Sciences, The University of Texas at Austin preprint AI94-218 (1994).
- [223] D.E. Moriarty and R. Miikkulainen, Proceedings of the Twelfth National Conference on Artificial Intelligence (AAAI-94), Seattle, WA, 1994.
- [224] P. Munro, Artificial Neural Nets and Genetic Algorithms, edited by R. Albrecht, C. Reeves and N. Steele, pp. 628–634, Springer-Verlag, 1993.
- [225] T. Nagao, T. Agui and H. Nagahashi, Transactions of the Institute of Electronics, Information and Communication Engineers D-II J75D-II (1992) 1634.
- [226] T. Nagao, T. Agui and H. Nagahashi, E76-D(6) (1993) 689.

- [227] T. Nagao, T. Agui and H. Nagahashi, IJCNN'93-NAGOYA Proceedings of the 1993 International Joint Conference on Neural Networks, Nagoya (Japan), pp. 2869–2872, IEEE, 1993.
- [228] M. Narayanan and S. Lucas, *Methods of Information in Medicine* 32 (1993) 55.
- [229] S. Nolfi, J. Elman and D. Parisi, UCSD preprint CRL TR 9019 (1990).
- [230] S. Nolfi and D. Parisi, Dept. of Cognitive Processes and Artificial Intelligence preprint PCIA-91-03 (1991).
- [231] S. Nolfi and D. Parisi, Institute of Psychology, CNR, Rome preprint PCIA-91-15 (1991), Also in *Proceedings of ALIFE III*, 1992.
- [232] S. Nolfi and D. Parisi, *Neural Networks In Robotics*, edited by G. Bekey and K. Goldberg, pp. 403–420, Kluwer academic publishers, 1993.
- [233] A. O'Neill, *Electronics Letters* 28 (1992) 47.
- [234] S. Ohsuga et al., *Information modeling and knowledge bases: Foundations, theory, and applications*, IOS Press, Amsterdam, 1991.
- [235] S. Oliner, M. Furst and O. Maimon, *Complex Systems* 6 (1992) 459.
- [236] G. Oosthuizen, *Proceedings of the Third International Conference on Genetic Algorithms*, pp. 385–390, 1989.
- [237] D.W. Opitz and J.W. Shavlik, *International Symposium on Integrating Knowledge and Neural Heuristics*, pp. 57–66, Pensacola, FL, 1994.
- [238] D.W. Opitz and J.W. Shavlik, *Machine Learning: Proceedings of the Eleventh International Conference*, New Brunswick, NJ, 1994, Morgan Kaufmann.
- [239] J. Paredis, *The evolution of behavior: Some experiments, Simulation of Adaptive Behavior*, 1990.
- [240] D. Parisi, F. Cecconi and S. Nolfi, *Network* 1 (1990) 149.
- [241] D. Parisi, S. Nolfi and F. Cecconi, C.N.R. Rome preprint PCIA-91-14 (1991), Also in *Proceedings of the first european conference on artificial life ECAL 91*, pp.207-216, Varela,F.J. and Bourgine,P. (Eds).
- [242] H. Penfold, U. Kohlmorgen and H. Schmeck, *The University of Newcastle, Australia preprint Parallel GA 004* (1993).
- [243] V. Petridis, S. Kazarlis and A. Papaikonomou, *Proceedings of IJCNN '93, Nagoya Japan* (1993) 2706.
- [244] V. Petridis et al., *proceedings of ICANN '92, Brighton England* (1992) 953.
- [245] W. Philipsen and L. Cluitmans, *Artificial Neural Nets and Genetic Algorithms*, edited by R. Albrecht, C. Reeves and N. Steele, pp. 650–657, Springer-Verlag, 1993.
- [246] V.W. Porto and D.B. Fogel, *Proceedings of the IEEE Symposium on Autonomous Underwater Vehicle Technology*, pp. 137–141, Washington, DC, 1990.
- [247] M. Potter, *Proceedings of COGANN-92 International Workshop on Combinations of Genetic Algorithms and Neural Networks*, edited by L. Whitley and J. Schaffer, pp. 123–133, IEEE Computer Society Press, 1992.
- [248] D.L. Prados, *Electronics Letters* 28 (1992) 1560.
- [249] D.L. Prados, *Proceedings of IEEE SOUTHEASTCON 2* (1992) 634.
- [250] Dept. of Theoretical Physics University of Edinburgh preprint, (1990).

- [251] C. Reeves and N. Steele, Proceedings of the Tenth IASTED International Conference. Applied Informatics, edited by M. Hamza, pp. 269–272, Zurich, Switzerland, 1992, Acta Press.
- [252] W. Rehm and V. Sterzing, Informationstechnik - IT 34 (1992) 307.
- [253] P. Robbins, A. Soper and K. Rennolls, Proceedings of the International Conference on Artificial Neural Networks and Genetic Algorithms, pp. 726–730, 1993.
- [254] S.G. Romaniuk, Proceedings of the Fifth International Conference on Genetic Algorithms, 1993.
- [255] Department of Computer Science and Engineering, Oregon Graduate Institute preprint, (1990).
- [256] Oregon Graduate Institute of Science and Technology preprint, (1992).
- [257] M. Rudnick, Proceedings of the World Congress on Neural Networks 93, pp. IV135 – IV138, WCNN93, 1993.
- [258] J.D. Schaffer, D. Whitley and L.J. Eshelman, Proceedings of the Conference on Combinations of Genetic Algorithms and Neural Networks, pp. 1–37, 1992.
- [259] A. Scherf and L. Voelz, Proceedings of the SPIE - The International Society for Optical Engineering 1710, pt.1 (1992) II.
- [260] W. Schiffmann, M. Joost and R. Werner, Proceedings of the International Conference on Artificial Neural Networks and Genetic Algorithms, pp. 675–682, 1993.
- [261] W. Schiffmann and K. Mecklenburg, Genetic generation of backpropagation trained neural networks, Parallel Processing in Neural Systems and Computers, edited by R. Eckmiller, G. Hartmann and G. Hauske, pp. 205–208, Elsevier Science Publishers, 1990.
- [262] C. Schizas, C. Pattichis and L. Middleton, Proceedings of the Conference on Combinations of Genetic Algorithms and Neural Networks, pp. 201–222, 1992.
- [263] A. Sebald and D. Fogel, Proceedings of the Twenty-Fourth Asilomar Conference on Signals, Systems and Computers, edited by R.R. Chen, volume 2, pp. 1020–1024, The Computer Society of IEEE/Maple Press, 1990.
- [264] A. Sebald and D. Fogel, Proceedings of the International Joint Conference on Neural Networks, volume II, pp. A–955, 1991.
- [265] A. Sebald, J. Schlenzig and D. Fogel, Asilomar Conference on Circuits, Systems & Computers 1 (1992) 551.
- [266] Department of Computer Science, Yale University preprint, (1991).
- [267] T. Shibata, T. Fukada and K. Tanie, IJCNN'93-NAGOYA Proceedings of the 1993 International Joint Conference on Neural Networks, Nagoya (Japan), pp. 742–745, IEEE, 1993.
- [268] T. Shibata, T. Fukada and K. Tanie, IJCNN'93-NAGOYA Proceedings of the 1993 International Joint Conference on Neural Networks, Nagoya (Japan), pp. 770–773, IEEE, 1993.
- [269] T. Shibata, T. Fukada and K. Tanie, IJCNN'93-NAGOYA Proceedings of the 1993 International Joint Conference on Neural Networks, Nagoya (Japan), pp. 2869–2872, IEEE, 1993.
- [270] R. Shonkwiler and K.R. Miller, Proceedings of the Conference on Combinations of Genetic Algorithms and Neural Networks, pp. 248–257, 1992.
- [271] Gesellschaft fuer Mathematik und Datenverarbeitung m.b.H. preprint, (1992).
- [272] R.E. Smith and H.B. Cribbs, Evolutionary Computation (1994).
- [273] R.E. Smith, Proceedings of the Third International Workshop on Neural Networks and Fuzzy Logic 1 (1993) 183.

- [274] W. Spears and K.D. Jong, Proceedings of the International Joint Conference on Neural Networks, pp. 118 – 121, 1990.
- [275] P. Spiessens and J. Torreele, Toward a Practice of Autonomous Systems. Proceedings of the First European Conference on Artificial Life, edited by F. Varela and P. Bourguine, pp. 70–77, Cambridge, MA, USA, 1992, MIT Press.
- [276] D.A. Stacey and S. Kremer, Proceedings of the International Joint Conference on Neural Networks, volume II, pp. A–957, 1991.
- [277] D. Stork et al., Proceedings of the International Joint Conference on Neural Networks, pp. I–202 – I–205, 1990.
- [278] K. Suzuki and Y. Kakazu, Proceedings of the Fourth International Conference on Genetic Algorithms, pp. 539–546, 1991.
- [279] W.A. Tackett, Proceedings of the World Congress on Neural Networks, pp. IV646 – IV649, 1993.
- [280] H. Takagi, Proceedings of the World Congress on Neural Networks, pp. II631 – II634, 1993.
- [281] L.A. Tamburino and M.M. Rizki, Applied Artificial Intelligence 6 (1992) 59.
- [282] D. Thierens et al., Artificial Neural Nets and Genetic Algorithms Proceedings of the International Conference at Innsbruck, Austria, edited by R. Albrecht, C. Reeves and N. Steele, pp. 658–663, Wien and New York, 1993, Springer.
- [283] P. Todd, Evolutionary methods for connectionist architectures, unpublished internal report, Stanford, 1988.
- [284] P.M. Todd and G.F. Miller, Proceedings of the International Conference on Simulation of Adaptive Behavior: From Animals to Animats, edited by S. Wilson and J.A. Meyer, pp. 306–315, MIT Press.
- [285] J. Torreele, Proceedings of the Fourth International Conference on Genetic Algorithms, edited by R. Belew and L. Booker, pp. 555–561, Morgan Kaufmann, 1991.
- [286] G.J. Toth and A. Lorincz, Proceedings of the World Congress on Neural Networks, pp. III168 – III171, WCN93, 1993.
- [287] L. Uhr and C. Vossler, A pattern recognition program that generates, evaluates and adjusts its own operators, Computers and Thought, edited by E. Feigenbaum and J. Feldman, McGraw-Hill, New York, 1963.
- [288] T. Uthmann and D. Polani, Proceedings of the International Conference on Genetic Algorithms, 1993.
- [289] J. Vaario, An Emergent Modeling Method for Artificial Neural Networks, PhD thesis, The University of Tokyo, 1993.
- [290] J. Vaario, Journal of SICE (Japanese Society of Instrument and Control Engineers) 33 (1994) 65.
- [291] J. Vaario, Informatica (1994), (to appear).
- [292] J. Vaario, Proceedings of Artificial Life IV, 1994.
- [293] J. Vaario, K. Hori and S. Ohsuga, The International Journal in Computer Simulation (1994), (to appear).
- [294] J. Vaario and S. Ohsuga, Adaptive neural architectures through growth control, Intelligent Engineering Systems through Artificial Neural Networks, pp. 11–16, 1991.
- [295] J. Vaario and S. Ohsuga, Heuristics - The Journal of Knowledge Engineering 5 (1992).

- [296] J. Vaario and S. Ohsuga, On growing intelligence, Neural Networks and a New AI, 1994.
- [297] J. Vaario, S. Ohsuga and K. Hori, Connectionist modeling using Lindenmayer systems, Information Modeling and Knowledge Bases: Foundations, Theory, and Applications, pp. 496–510, 1991.
- [298] V. Vemuri, International Journal of Neural Networks 2 (1992) 71.
- [299] F. Vico and F. Sandoval, Artificial Neural Networks, IWANN91, Granada, edited by A. Prieto, pp. 196–203, Lecture notes in Computer Science 540, Springer Verlag, 1991.
- [300] F. Vico and F. Sandoval, Microprocessing and Microprogramming 34 (1992) 251.
- [301] H.M. Voigt, J. Born and I. Santibanez-Koref, Bionics and Evolution Techniques Laboratory, Technical University Berlin preprint TR-02-93 (1993).
- [302] Technical University of Munich preprint, (1990).
- [303] G. Werner and M. Dyer, AI Lab, UCSD preprint UCLA-AI-90-06 (1990).
- [304] G. Werner and M. Dyer, Artificial Life II: Proceedings of the Workshop on Artificial Life Held in 1990, pp. 659–687, 1991.
- [305] K.W. Whitaker, R.K. Prasanth and R.E. Markin, AIAA Journal 31 (1993) 273.
- [306] B. Whitehead and T. Choate, IEEE Transactions on Neural Networks 5 (1994) 15.
- [307] D. Whitley and C. Bogart, Proceedings of the International Joint Conference on Neural Networks, pp. 134–137, IEEE Press, 1990.
- [308] D. Whitley, S. Dominic and R. Das, Proceedings of the Fourth International Conference on Genetic Algorithms, edited by R.K. Belew and L.B. Booker, pp. 562–569, Morgan Kaufmann, San Mateo, CA, 1991.
- [309] D. Whitley and T. Hanson, Proceedings of the Third International Conference on Genetic Algorithms, edited by J. Schaffer, pp. 391–396, Morgan Kaufmann, 1989.
- [310] D. Whitley, T. Starkweather and C. Bogart, Parallel Computing 14-3 (1990) 347.
- [311] D. Whitley, Proceedings of the International Neural Network Society Conference, PROC INNS88, 1988.
- [312] D. Whitley, Department of Computer Science, Colorado State University preprint CS-88-128 (1988), Also appeared in: Proceedings of the 7th Conference for the Study of Artificial Intelligence and Simulated Behavior, Sussex, England 1989. Pitman Publishers.
- [313] D. Whitley, Optimizing Neural Networks Using Genetic Algorithms (Markt and Technik, Munich, Germany, 1989).
- [314] D. Whitley, Proceedings of the 1989 Rocky Mountain Conference on Artificial Intelligence, Denver, CO, 1989.
- [315] D. Whitley et al., Machine Learning, 1992.
- [316] D. Whitley, S. Dominic and R. Das, Proceedings of the International Conference on Genetic Algorithms, pp. 562–5769, 1991.
- [317] A.P. Wieland, Proceedings of the 1990 Connectionist Models Summer School, edited by D. Touretzky et al., pp. 91–102, Morgan Kaufman, 1990.
- [318] A.P. Wieland, IJCNN-91 II (1991) 667.
- [319] P. Wilke, Proceedings of the World Congress on Neural Networks, pp. I269 – I272, 1993.
- [320] B.V. Williams et al., IEEE Evolutionary Computation 1994, 1994.

- [321] B. Williams and D. Bounds, Proceedings of ECAL93 – European Conference on Artificial Life, 1993.
- [322] C.L. Wilson and O. Omidvar, Optimization of neural network topology and information content using boltzmann methods, NIST ir4766, at the NIST archive, ????, available via ftp from (the NIST archive).
- [323] S.W. Wilson, Perceptron redux: Emergence of structure, Emergent Computation, edited by S. Forrest, pp. 249–256, North Holland, Amsterdam, 1990.
- [324] L. Yaeger, Artificial Life III, Proceedings Volume XVII, edited by C.G. Langton, pp. 263–298, Santa Fe Institute Studies in the Sciences of Complexity, Addison-Wesley, 1994.
- [325] T. Yamada and T. Yabuta, IJCNN’93-NAGOYA Proceedings of the 1993 International Joint Conference on Neural Networks, Nagoya (Japan), pp. 2783–2786, IEEE, 1993.
- [326] Commonwealth Scientific and Industrial Research Organization, Division of Building, Construction and Engineering preprint, (1992).
- [327] X. Yao, International Journal of Intelligent Systems 8 (1993) 539.
- [328] B.T. Zhang and H. Mühlenbein, Proceedings of the International Conference on Genetic Algorithms, 1993.
- [329] B.T. Zhang and G. Veenker, Proceedings of the International Joint Conference on Neural Networks, pp. 690–695, 1991.