

## *Artificial Life, Dynamic Systems and Liquid Brains*

### **Bibliography**

- Adamatzky, A. (2001c). *Computing in Nonlinear Media and Automata Collectives*. Bristol and Philadelphia: Institute of Physics Publishing.
- Abdin, A. (1999) GLife, Software at <http://glife.sourceforge.net/>
- Alexander, I. (1997). *Impossible Minds: My Neurons, My Consciousness*. World Scientific Publishing.
- Axelrod, R. (1997). *The Complexity of Cooperation: Agent-Based Models of Competition and Collaboration*. Princeton University Press.
- Axelrod, R. *The Complexity of Co-operation: Agent-Based Models of Competition and Collaboration*, Princeton University Press, 1997.
- Bechtel W and Abrahamsen A *Connectionism and The Mind: An Introduction to Parallel Processing in Networks*, Blackwell, 1991.
- Bickhard, M.H. and Terveen, L., *Foundational Issues in Artificial Intelligence and Cognitive Science*, Elsevier, 1995.
- Boden, M.A. (Editor), *The Philosophy of Artificial Intelligence*, Oxford University Press, 1990.
- Boden, M.A. (Editor), *The Philosophy of Artificial Life*, Oxford University Press, 1996.
- Bonabeau, E., Dorigo, M. and Theraulaz G. (1999). *Swarm Intelligence: From Natural to Artificial Systems*, Oxford University Press.
- Braitenberg, V., *Vehicles: Experiments in Synthetic Psychology*. MIT Press, 1986.
- Bratman, M.E., Israel, D.J. & Pollack, M.E. Plans and resource-bounded practical reasoning. *Computational Intelligence*, 4, 349-355, 1988.
- Brooks R. A. A Robust Layered control system for a mobile robot - *IEEE Journal of Robotics and Automation* 2(1) 14-23, March 1986
- Brooks, R., Elephants Don't Play Chess. In: *Robotics and Autonomous Systems* 6, pp.3-15, 1990
- Brooks, R.A. & Stein, L.A. *Building Brains for Bodies*. MIT AI Memo 1439, 1993.
- Brooks, R.A., How to Build Complete Creatures Rather than Isolated Cognitive Simulators, In: *Architectures For Intelligence*, K. VanLehn (Ed.), LEA Pubs, 1991.
- Brooks, R.A., Breazeal, C., Irie, R., Kemp, C., Marjanovic, M., Scassellat, B., Williamson, M., *Alternate Essences of Intelligence*. In *AAAI-98*, 1998
- Brustolini, J.C., *Autonomous Agents : Characterisation and Requirements*, Report CMU-CS-91-204, School of Computer Science, Carnegie-Mellon University, Pittsburgh, 1991.
- Carley, K.M., Prietula, M.J. and Lin, Z, Design versus cognition, The interaction of agent cognition and organisational design on organisational performance, *Journal of Artificial Societies and Social Simulation*, Vol. 1, no. 3, 1998.
- Castelfranchi, C. and Muller, J.P. *From Reaction to Cognition*, 5th European Workshop on Modelling Autonomous Agents in a Multi-Agent World, MAAMAW '93, Springer Verlag, 1993.
- Castelfranchi, C. Guarantees for autonomy in cognitive agent architectures. In: Wooldridge, M. and N.R. Jennings (Eds), *Intelligent Agents*. Springer-Verlag, 1995: 56-70
- Cilliers, D, *Complexity and Postmodernism*, 1998.
- Davis, D.N., T. Chalabi and B. Berbank-Green, Towards an architecture for artificial life agents: II, In: M. Mohammadian (Editor), *New Frontiers in Computational Intelligence and Its Applications*, ISO Press, 1999.
- Davis, D.N. Agents, Emergence, Emotion and Representation, Emergent Behaviour of Complex Human-Machine Interaction, IEEE International Conference on Industrial Electronics, Control and Instrumentation (IECON2000), Nagoya, Japan 2000.

- Davis, D.N., Multiple Level Representations of Emotion in Computational Agents, Emotion, Cognition and Affective Computing, AISB2001: University of York, March 2001.
- Dittrich, P., Ziegler, J. and Banzhaf W. (2001). Artificial chemistries: A review, *Artificial Life*, 7, 225-275.
- Dorffner, G. *Neural Networks and a New AI*. Chapman and Hall, London, UK, 1996.
- Emden, M.H. van. , *An Analysis of Complexity*. Amsterdam : Mathematisch Centrum., 1971
- Epstein, J.M. and Axtell, R. *Growing Artificial Societies: Social Science From The Bottom Up*, MIT Press, 1996.
- Epstein, J.M. and Axtell, R.L. (1996). *Growing Artificial Societies*. The MIT Press.
- Ferber, J. *Multi-Agent Systems*, Addison-Wesley, 1999
- Franklin S.P., *Autonomous Agents as Embodied AI*, *Cybernetics and Systems*, Vol. 28, No. 6, pp. 499-520, 1998.
- Gasser, L. & Briot, J.P. Object-based concurrent programming and DAI. In: *Distributed Artificial Intelligence: Theory and Praxis*, 81-108, Kluwer, 1992.
- Gilbert, N. and Conte, R. (1995) *Artificial Societies: The computer simulation of social life*, UCL Press, ISBN 1-85728-305-8.
- Gilbert, N. and Doran, J. (1994) *Simulating Societies: The computer simulation of social phenomena*, UCL Press, ISBN 1-85728-082-2.
- Grand, S., *Creation: Life and How to Make It*, Weidenfeld & Nicolson General; ISBN: 0297643916, 2000.
- Hanks, S., Pollack, M.E. and Cohen, P.R., Benchmarks, Test-beds, Controlled Experimentation, and the Design of Agent Architectures, *AI Magazine*, 14(4):17-42, 1993.
- Hargreaves, H., P. Shaun and Y. Varoufakis, *Game Theory, A Critical Introduction*. Routledge, 1995.
- Hegselmann R. & A. Flache (1998) Understanding complex social dynamics: A plea for cellular automata based modelling. *Journal of Artificial Societies and Social Simulation*, vol. 1, no3.
- Helbing, D. (1995). *Quantitative Sociodynamics*. Dordrecht: Kluwer Academic. 1995.
- Hemelrijk, C.K., Cooperation without Genes, Games or Cognition. In: *Husbands, P. and Harvey, I. (Eds.) Fourth European Conference on Artificial Life*, MIT Press, 1997.  
<http://jasss.soc.surrey.ac.uk/JASSS.html>
- Hofstadter, D., *Godel, Escher, Bach : An Eternal Golden Braid*, Penguin, 1979.
- Husbands, P. and Harvey, I. (Eds.) *Fourth European Conference on Artificial Life*, MIT Press, 1997.
- Ilachinski, A. (2001). *Cellular Automata: A Discrete Universe*. World Scientific Publishing.
- Ilachinski, A. (2004). *Artificial War: Multigent-Based Simulation of Combat*. World Scientific Publishing.
- Kauffman , Stuart , *At home in the universe : the search for laws of self - organization and complexity*, London : Viking, 1995
- Kelly, K. *Out of Control : The New Biology of Machines, Social Systems and the Economic World*, Perseus Pr; ISBN: 0201483408 , 1995.
- Kohler, T.A. and Gumerman, G.J., *Dynamics in Human and Primate Societies: Agent Based Modeling of Social and Spatial Processes*, Santa Fe Institute Studies in the Sciences of Complexity, 2000.
- Koza, J. R., *Evolution of Subsumption Using Genetic Algorithm*, NEC Research Index <http://citeseer.nj.nec.com/koza93evolution.html> (Last accessed 25/3/2002), 1993
- Langton C. (ed.) (1994) *Artificial Life III*, Addison-Wesley.
- Levy S. (1992) *Artificial Life*. Jonathan Cape.
- Liebrand, W.B.G., Nowak, A. & Hegselmann, R., *Computer Modeling of Social Processes*, SAGE Publications, London, 1995.
- MacGregor, R.J. *Neural and Brain Modeling*, Academic Press, 1987
- Maes, P. (Ed), *Designing Autonomous Agents*, MIT Press, 1990.

- Maes, P. The agent network architecture (ANA). SIGART Bulletin, 2, 115-120, 1991.
- Matari, M.J., Studying the role of embodiment in cognition, *Cybernetics and Systems*, 28(6), 457-470, 1997.
- Mele, A.R., *Autonomous Agents: From Self-Control to Autonomy*, Oxford University Press, 1995.
- Minsky, M. (1988) *The Society of Mind*. Simon and Schuster. New York.
- Nadel, Cooper, Culivcover & Harnish Neural Connections and Mental Computation, MIT/Bradford, 1989
- Nilsson, N. 1998. *Artificial Intelligence : A New Synthesis*. Morgan Kaufmann, San Francisco.
- Ornstein, R.E. The Psychology of Consciousness, ISBN: 0140195203, Penguin Books, 1996
- Pfeifer, R. Scheier, C. (1999) *Understanding Intelligence*. MIT Press, Cambridge, Massachusetts.
- Pirjanian P - Behaviour Coordination Mechanism Tech Report IRIS-99-375, Institute for Robotics and Intelligent Systems, University of Southern California, Los Angeles CA, U.S.A
- Plutchik, R. (1994) *The Psychology and Biology of Emotion*. Harper Collins. New York.
- Port R.F., Van Gelder T. (Editors), *Mind As Motion : Explorations in the Dynamics of Cognition* MIT Press; ISBN: 0262661101, 1998.
- Posner, M., *Foundations of Cognitive Science*, MIT Press, 1989
- Resnick, M. (1996) *Turtles, Termites and Traffic Jams: Explorations in Massively Parallel Microworlds (Complex Adaptive Systems)*.
- Schoenauer, M. (Eds.), *Interacting Trajectories in Design Space and Niche Space: A Philosopher Speculates About Evolution*. In: *The Sixth International Conference on Parallel Problem Solving from Nature*, 2000
- Selman, B. Brooks, R. Dean, T. Horvitz, E. Mitchell, T. Nilsson, N. (1996) *Challenge Problems for Artificial Intelligence*. In *Proceedings of the Thirteenth National Conference on Artificial Intelligence (AAAI 96)*. Portland, Oregon, 1340-1345
- Smith, L. Samuelson, L. (2002) *Different is Good: Connectionism and Dynamic Systems Theory are Complementary Emergentist Approaches to Development*. *Developmental Science [Special Issue]*. 2002.
- Steel, L. Co-operation between distributed agents through self organisation. *Decentralised AI - First European Workshop on Modelling Autonomous Agents in Multi-Agent Worlds*, 175-196, 1990.
- Steels, L., *When are robots intelligent autonomous agents?* *Robotics and Autonomous Systems*, 15 (1-2) (1995) pp. 3-9
- Sulis, W. and Combs, A., Editors. (1996). *Nonlinear Dynamics in Human Behaviour*. World Scientific Publishers.
- von Neumann J. (1963), *General and Logical Theory of Automata*, In: A.H. Taub (ed), *J. von Neumann, Collected Works*, Pergamon.
- Weisbuch, G. (1990), *Complex Systems Dynamics*, Addison-Wesley, ISBN: 0-201-52887-8, 1990.
- Wheeler, M. *Cognition's Coming Home: The Reunion of Life and Mind*, In: *Husbands, P. and Harvey, I. (Eds.) Fourth European Conference on Artificial Life*, MIT Press, 1997, pp 10-19.
- Wilson, A. and J.Hendler. *Linking symbolic and subsymbolic computing*. *Connection Science*, 5:395-414, 1993.