Bibliography

Albus, J. S. 1971. A theory of cerebellar functions. *Mathematical Biosciences* 10(1/2):25–61.

Albus, J. S. 1975. A new approach to manipulator control: The cerebellar model articulation controller (CMAC). *American Society of Mechanical Engineers, Transactions* G (*Journal of Dynamic Systems, Measurement, and Control*) 97(3):220–227.

Albus, J. S. 1981. *Brains, Behavior, and Robotics*. Peterborough, N.H.: Byte Books.

Aleksander, I. 1970. Some psychological properties of digital learning nets. *International Journal of Man-Machine Studies* 2:189–212.

Aleksander, I., and T. J. Stonham. 1979. Guide to pattern recognition using random-access memories. *IEE Journal on Computers and Digital Techniques* 2(1):29–40.

Anderson, J. A. 1968. A memory storage module utilizing spatial correlation functions. *Kybernetik* 5(3):113–119.

Anderson, J. A. 1970. Two models for memory organization using interacting traces. *Mathematical Biosciences* 8:137–160.

Anderson, J. A. 1977. Neural models with cognitive implications. In D. LaBerge and S. J. Samuels (eds.), *Basic Processes in Reading: Perception and Comprehension* (Hillsdale, N.J.: Erlbaum).

Anderson, J. A. 1983. Cognitive and psychological computation with neural models. *IEEE Transactions on Systems, Man, and Cybernetics* 13(5):799–815.

Anderson, J. A. 1986. Cognitive capabilities of a parallel system. In E. Bienenstock, F. Fogelman Soulié, and G. Weisbuch (eds.), *Disordered Systems and Biological Organization* (NATO ASI Series F, vol. 20) (Berlin: Springer-Verlag).

Anderson, J. A., and G. E. Hinton. 1981. Models of information processing in the brain. In G. E. Hinton and J. A. Anderson (eds.), *Parallel Models of Associative Memory* (Hillsdale, N.J.: Erlbaum).

Anderson, J. A., and G. L. Murphy. 1986. Psychological concepts in a parallel system. *Physica* 22D:318–336.

Baum, E. B., J. Moody, and F. Wilczek. 1986. Internal Representations for Associative Memory. Report NSF-ITP-86-138, Institute for Theoretical Physics, University of California, Santa Barbara.

Block, H. D. 1970. Review of *Perceptrons: An Introduction to Computational Geometry. Information and Control* 17:501–522.

Blumenthal, L. M., and K. Menger. 1970. *Studies in Geometry*. San Francisco: Freeman.

Bower, G. 1967. A multicomponent theory of the memory trace. *Psychology of Learning and Motivation* 1:229–325. Reprinted in G. Bower (ed.), *Human Memory: Basic Processes* (New York: Academic, 1977).

Brindley, G. S. 1969. Nerve net models of plausible size that perform many simple learning tasks. *Proceedings of the Royal Society of London* B 174:173–191.

Eccles, J. C. 1975. Under the spell of the synapse. In F. G. Worden, J. P. Swazey, and G. Adelman (eds.), *The Neurosciences: Paths of Discovery* (Cambridge, Mass.: MIT Press).

Eccles, J. C., M. Ito, and J. Szentagothai. 1967. *The Cerebellum as a Neuronal Machine*. Berlin: Springer-Verlag.

Feldman, J. A., and D. H. Ballard. 1982. Connectionist models and their properties. *Cognitive Science* 6(3): 205–254.

Feller, W. 1957. *An Introduction to Probability Theory and Its Applications*, second edition, volume 1. New York: Wiley.

Foster, C. F. 1976. *Content Addressable Parallel Processors*. New York: Van Nostrand Reinhold.

Fredkin, E. 1960. Trie memory. *Communications of the ACM* 3: 490–499.

Grossberg, S. 1980. How does a brain build a cognitive code? *Psychological Review* 87: 1–51. Reprinted in Grossberg 1983.

Grossberg, S. 1983. *Studies of Mind and Brain* (Boston Studies in the Philosophy of Science, volume 70). Boston: Reidel.

Hebb, D. O. 1949. *Organization of Behavior: A Neuropsychological Theory*. New York: Wiley.

Hinton, G. E., T. J. Sejnowski, and D. H. Ackley. 1984. Boltzmann Machines: Constraint Satisfaction Networks that Learn. Report CMU-CS-84-119, Department of Computer Science, Carnegie-Mellon University.

Hofstadter, D. R. 1985. *Metamagical Themas*. New York: Basic Books.

Holland, J. H. 1986. Escaping brittleness: The possibilities of general-purpose learning algorithms applied to parallel rule-based systems. In R. S. Michalski, J. G. Carbonell, and T. M. Mitchell (eds.), *Machine Learning: An Artificial Intelligence Approach*, volume 2 (Los Altos, Calif.: Kaufmann).

Holland, J. H., K. J. Holyoak, R. E. Nisbett, and P. R. Thagard. 1986. *Induction: Processes of Inference, Learning, and Discovery*. Cambridge, Mass.: MIT Press.

Hopfield, J. J. 1982. Neural networks and physical systems with emergent collective computational abilities. *Proceedings of the National Academy of Sciences (Biophysics)* 79(8): 2554–2558.

Ito, M. 1982. Mechanisms of motor learning. In S. Amari and M. A. Arbib (eds.), *Competition and Cooperation in Neural Nets* (Lecture Notes in Biomathematics, volume 45) (Berlin: Springer-Verlag).

Kanerva, P. 1984. Self-Propagating Search: A Unified Theory of Memory. Report CSLI-84-7, Center for the Study of Language and Information, Stanford University.

Kanerva, P. 1986. Parallel structures in human and computer memory. In J. S. Denker (ed.), *Neural Networks for Computing* (AIP Conference Proceedings, volume 151) (New York: American Institute of Physics).

Knuth, D. E. 1981. *Seminumerical Algorithms: The Art of Computer Programming*, second edition, volume 2. Reading, Mass.: Addison-Wesley.

Kohonen, T. 1972. Correlation matrix memories. *IEEE Transactions on Computers* C 21(4): 353–359.

Kohonen, T. 1977. *Associative Memory: A System-Theoretic Approach*. New York: Springer-Verlag.

Kohonen, T. 1984. *Self-Organization and Associative Memory*, second edition. New York: Springer-Verlag.

Llinás, R. R. 1975. The cortex of the cerebellum. *Scientific American* 232(1): 56–71.

Loftus, E. F. 1979. *Eyewitness Testimony*. Cambridge, Mass.: Harvard University Press.

Marr, D. 1969. A theory of cerebellar cortex. *Journal of Physiology* 202: 437–470.

Marr, D. 1970. A theory for cerebral neocortex. *Proceedings of the Royal Society of London* B 176: 161–234.

Marr, D. 1971. Simple memory: A theory for archicortex. *Philosophical Transactions of the Royal Society of London* B 262: 23–81.

McClelland, J. L., and D. E. Rumelhart, eds. 1986. *Parallel Distributed Processing: Explorations in the Microstructure of Cognition*, volume 2. Cambridge, Mass.: MIT Press. (For volume 1 see Rumelhart and McClelland 1986.)

McCulloch, W. S., and W. Pitts. 1943. A logical calculus of the ideas immanent in nervous activity. *Bulletin of Mathematical Biophysics* 5: 115–133.

Minsky, M. 1954. Theory of Neural-Analog Reinforcement Systems and Its Application to the Brain-Model Problem. Doctoral dissertation, Princeton University (University Microfilms, no. 9438).

Minsky, M., and S. Papert. 1969. *Perceptrons: An Introduction to Computational Geometry*. Cambridge, Mass.: MIT Press.

Nilsson, N. J. 1965. *Learning Machines: Foundations of Trainable Pattern-Classification Systems*. New York: McGraw-Hill.

Palay, S. L., and V. Chan-Palay. 1974. *Cerebellar Cortex: Cytology and Organization*. New York: Springer-Verlag.

Pylyshyn, Z. W., ed. 1987. *The Robot's Dilemma: The Frame Problem of Artificial Intelligence*. Norwood, N. J.: Ablex.

Rosenblatt, F. 1958. The Perceptron: A Theory of Statistical Separability in Cognitive Systems. Project PARA report VG-1196-6-1, Cornell Aeronautical Laboratory, Buffalo, N.Y.

Rosenblatt, F. 1962. *Principles of Neurodynamics*. Washington, D.C.: Spartan.

Rumelhart, D. E., G. E. Hinton, and R. J. Williams. 1986. Learning internal representations by error propagation. In Rumelhart and McClelland 1986.

Rumelhart, D. E., and J. L. McClelland, eds. 1986. *Parallel Distributed Processing: Explorations in the Microstructure of Cognition*, volume 1. Cambridge, Mass.: MIT Press. (For volume 2 see McClelland and Rumelhart 1986.)

Schank, R. C. 1982. *Dynamic Memory*. Cambridge University Press.

Sejnowski, T. J., and C. R. Rosenberg. 1987. Parallel networks that learn to pronounce English text. *Complex Systems* 1(1): 145–168.

Thurber, K. J. 1976. *Large Scale Computer Architecture: Parallel and Associative Processors*. Rochelle Park, N.J.: Hayden.

von Neumann, J. 1951. The general and logical theory of automata. In L. A. Jeffress (ed.), *Cerebral Mechanisms in Behavior: The Hixon Symposium* (New York: Wiley). Reprinted in A. H. Taub (ed.), *John von Neumann: Collected Works*, volume 5 (New York: Pergamon, 1963).

von Neumann, J. 1952. Probabilistic Logics and the Synthesis of Reliable Organisms from Unreliable Components. Lecture, California Institute of Technology. Reprinted in C. E. Shannon and J. McCarthy (eds.), *Automata Studies* (Princeton University Press, 1965), and in A. H. Taub (ed.), *John von Neumann: Collected Works*, volume 5 (New York: Pergamon, 1963).

von Neumann, J. 1958. *The Computer and the Brain*. New Haven: Yale University Press.

Widrow, B. 1962. Generalization and information storage in networks of ADALINE "neurons." In M. C. Yovits, G. T. Jacobi, and G. O. Goldstein (eds.), *Self-Organizing Systems 1962* (Washington, D.C.: Spartan).

Willshaw, D. 1981. Holography, associative memory, and inductive generalization. In G. E. Hinton and J. A. Anderson (eds.), *Parallel Models of Associative Memory* (Hillsdale, N.J.: Erlbaum).

Willshaw, D. J., and H. C. Longuet-Higgins. 1970. Associative memory models. *Machine Intelligence* 5: 351–359.