

BIBLIOGRAPHY

Albert A (1972) *Regression and the Moore-Penrose Pseudoinverse*. Academic Press, New York.

Albus JS (1971) "A Theory of Cerebellar Function." *Math. Biosci.*, **10**:25–61.

Amit DJ, Gutfreund H, Sompolinsky H (1985) "Spin-Glass Models of Neural Networks." *Phys. Rev.*, **A32**:1007–1018.

Amit DJ, Gutfreund H, Sompolinsky H (1985) "Storing Infinite Number of Patterns in a Spin-Glass Model of Neural Networks." *Phys. Rev. Lett.*, **55**:1530–1533.

Amit DJ, Gutfreund H, Sompolinsky H (1987) "Information Storage in Neural Networks with Low Level of Activity." *Phys. Rev.*, **A35**:2293–2303.

Anderson JA (1968) "A Memory Model Using Spatial Correlation Functions." *Kybernetik*, **5**:113–119.

Anderson JA (1970) "Two Models for Memory Organization." *Math. Biosci.*, **8**:137–160.

Anderson JA, Silverstein JW, Ritz SA, Jones RS (1977) "Distinctive Features, Categorical Perception and Probability Learning: Some Applications of a Neural Model." *Psych. Rev.*, **84**:413–451.

Angeniol B, de la Croix Vaubois G, le Texier JY (1988) "Self-Organizing Feature Maps and the Traveling Salesman Problem." *Neural Networks*, **1**:289–293.

Arbib MA (1981) "Perceptual Structures and Distributed Motor Control." *Handbook of Physiology: The Nervous System II, Motor Control*, VB Brooks (ed.), 1449–1480. Bethesda, Md.

Arbib MA, Amari SI (1985) "Sensori-Motor Transformations in the Brain [with a Critique of the Tensor Theory of Cerebellum]." *J. Theor. Biol.*, **112**:123–155.

Ballard DH (1986) "Cortical Connections and Parallel Processing: Structure and Function." *Behav. & Brain Sci.*, **9**:67–91.

Barto AG, Sutton SR (1981) "Goal Seeking Components for Adaptive Intelligence: An Initial Assessment." AFWAL-TR-81-1070, Avionics Laboratory, Air Force Wright Aeronautical Laboratories, Wright-Patterson AFB, Ohio 45433.

Barto AG, Sutton SR, Anderson CW (1983) "Neuron-Like Adaptive Elements That Can Solve Difficult Learning Control Problems." *IEEE SMC*, **13**:834–846.

Baum EB (1986) "Intractable Computations without Local Minima." *Phys. Rev. Lett.*, **57**:2764–2767.

Becker W, Fuchs AF (1969) "Further Properties of the Human Saccadic System: Eye Movements and Correction Saccades with and without Visual Fixation Points." *Vis. Res.*, **9**:1247–1258.

Bernstein N (1967) *The Coordination and Regulation of Movements*. Pergamon, London.

Bertsch H, Dengler J (1987) Klassifizierung und Segmentierung medizinischer Bilder mit Hilfe der selbstlernenden topologischen Karte, E Paulus (ed.), 9.DAGM-Symposium Mustererkennung, 166–170, Springer Informatik Fachberichte 149, Berlin, Heidelberg.

Blasdel GG, Salama G (1986) "Voltage-Sensitive Dyes Reveal a Modular Organization in Monkey Striate Cortex." *Nature*, **321**:579–585.

Block HD (1962) "The Perceptron: A Model for Brain Functioning." *Rev. of Mod. Phys.*, **34**:123–135.

- Bounds DG (1987) "New Optimization Methods from Physics and Biology." *Nature*, **329**:215–219.
- Bradburn DS (1989) "Reducing Transmission Error Effects Using a Self-Organizing Network." *IJCNN-89*, **II**:531–538. Washington, D.C.
- Brady M, Hollerbach JM, Johnson TL, Lozano-Perez T, Mason MT (1984) *Robot Motion: Planning and Control*. MIT Press, Cambridge, Mass.
- Brooks RA (1983) "Solving the Find-Path Problem by Good Representation of Free Space." *IEEE SMC*, **13**:190–197.
- Brooks VB (1981) "The Nervous System: Motor Control." *Handbook of Physiology*, American Physiological Society, Bethesda, Md.
- Buhmann J, Schulten K (1987) "Noise-Driven Temporal Association in Neural Networks." *Europhy. Lett.*, **4**(10):1205–1209.
- Buhmann J, Divko R, Schulten K (1989) "Associative Memory with High Information Content." *Phys. Rev.*, **A39**:2689–2692.
- Caianiello ER (1961) "Outline of a Theory of Thought and Thinking Machines." *J. Theor. Bio.*, **1**:204–235.
- Campenot RB (1977) "Local Control of Neurite Development by Nerve Growth Factor." *PNAS*, **74**:4516–4519.
- Cohen M, Grossberg S (1983) "Absolute Stability of Global Pattern Formation and Parallel Memory Storage by Competitive Neural Networks." *IEEE SMC*, **13**: 815–826.
- Cottrell M, Fort JC (1986) "A Stochastic Model of Retinotopy: A Self-Organizing Process." *Bio. Cybern.*, **53**:405–411.
- Cragg BG, Temperley HNV (1954) "The Organization of Neurons: A Cooperative Analogy." *EEG and Clin. Neurophy.*, **6**: 85–92.
- Cragg BG, Temperley HNV (1955) "The Analogy with Ferromagnetic Hysteresis." *Brain*, (78)**II**:304–316.
- Creutzfeld OD (1983) *Cortex Cerebri*. Springer, Berlin.

- Cruse H, Wischmeyer E, Br"uwer M, Brockfeld P and Dress A (1990) "On the Cost Functions for the Control of Human Arm Movements." *Bio. Cybern.*, **62**:519–528.
- Derrida B, Gardner E, Zippelius A (1987) "An Exactly Soluble Asymmetric Neural Network Model." *Europhys. Lett.*, **4**:167–173.
- Durbin R, Willshaw D (1987) "An Analogue Approach to the Travelling Salesman Problem Using an Elastic Net Method." *Nature*, **326**:689–691.
- Edelman GM (1978) "Group Selection and Phasic Reentrant Signalling: A Theory of Higher Brain Function." *The Mindful Brain*, GM Edelman and VB Mountcastle (eds.), 51–100. MIT Press, Cambridge, Mass.
- Fox J (1984) "The Brain's Dynamic Way of Keeping in Touch." *Science*, **225**:820–821.
- Gardiner CW (1985) *Handbook of Stochastic Methods* (2nd Ed.). Springer, New York.
- Gardner E (1988) "The Space of Interactions in Neural Network Models." *J. Phys.*, **A21**:257–270.
- Gardner E, Derrida B (1988) "Optimal Storage Properties of Neural Network Models." *J. Phys.*, **A21**:271–284.
- Garey MR, Johnson DS (1979) *Computers and Intractability: A Guide to the Theory of NP-Completeness*. Freeman, New York.
- Ginsburg H, Opper S (1969) *Piaget's Theory of Intellectual Development*. Prentice Hall, Englewood Cliffs, N.J.
- Golgi C (1903) *Opera Omnia*, **I, II**. U Hoepli, Milan.
- Grossberg S (1976a) "On the Development of Feature Detectors in the Visual Cortex with Applications to Learning and Reaction-Diffusion Systems." *Bio. Cybern.*, **21**:145–159.
- Grossberg S (1976b) "Adaptive Pattern Classification and Universal Recoding: I. Parallel Development and Coding of Neural Feature Detectors." *Bio. Cybern.*, **23**:121–134.

- Grossberg S (1978) "Competition, Decision and Consensus." *J. Math. Anal. Appl.*, **66**:470–493.
- Grossberg S, Kuperstein M (1986) *Neural Dynamics of Adaptive Sensory-Motor Control*. North Holland, Amsterdam.
- Gutfreund H, Mezard M (1987) "Processing Temporal Sequences." *Neural Networks*, preprint.
- Harris WA (1986) "Learned Topography: The Eye Instructs the Ear." *TINS*, March, 97–99.
- Hastie T, Stuetzle W (1989) "Principal Curves." *J. Am. Stat. Assn.*, **84**:502–516.
- Hebb D (1949) *Organization of Behavior*. Wiley, New York.
- Held R, Hein A (1963) "Movement-Produced Stimulation in the Development of Visually Guided Behaviour." *J. Comp. Physiol. Psy.*, **56**:872–876
- Henson DB (1977) "Corrective Saccades: Effects of Altering Visual Feedback." *Vis. Res.*, **17**:63–67.
- Hillis WD (1985) *The Connection Machine*. MIT Press, Cambridge, Mass.
- Hogan N (1984) "An Organizing Principle for a Class of Voluntary Movements." *J. Neurosci.*, **4**:2745–2754.
- Hopfield JJ (1982) "Neural Networks and Physical Systems with Emergent Collective Computational Abilities." *PNAS USA*, **79**:2554–2558.
- Hopfield JJ (1984) "Neurons with Graded Response Have Collective Computational Properties Like Those of Two-State Neurons." *PNAS USA*, **81**:3088–3092.
- Hubel DH, Wiesel TN (1974) "Sequence Regularity and Geometry of Orientation Columns in the Monkey Striate Cortex." *J. Comp. Neurol.*, **158**:267–294.

Hubel DH, Wiesel TN, Stryker PN (1978) "Anatomical Demonstration of Orientation Columns in Macaque Monkey." *J. Comp. Neurol.*, **177**:361–380.

Hwang YK (1988) "Robot Path Planning Using Potential Field Representation." Thesis, Univ. of Illinois, Urbana-Champaign.

Jenkins WM, Merzenich MM, Ochs MT (1984) "Behaviorally Controlled Differential Use of Restricted Hand Surfaces Induces Changes in the Cortical Representation of the Hand in Area 3b of Adult Owl Monkeys." *Soc. Neurosci. Abstr.*, **10**:665.

Jordan MI, Rosenbaum DA (1988) "Action." *Foundation of Cognitive Science*, MI Posner (ed.). MIT Press, Cambridge, Mass.

Kaas JH, Nelson RJ, Sur M, Lin CS, Merzenich MM (1979) "Multiple Representations of the Body within the Primary Somatosensory Cortex of Primates." *Science*, **204**:521–523.

Kaas JH, Merzenich MM, Killackey HP (1983) "The Reorganization of Somatosensory Cortex Following Peripheral Nerve Damage in Adult and Developing Mammals." *Ann. Rev. Neurosci.*, **6**:325–56.

van Kampen NG (1981) *Stochastic Processes in Physics and Chemistry*. North Holland, Amsterdam.

Kandel ER, Schwartz JH (1982) "Molecular Biology of Learning: Modulation of Transmitter Release." *Science*, **218**:433–443.

Kandel ER, Schwartz JH (1985) *Principles of Neural Science* (2nd Ed.). Elsevier, New York.

Kawato M, Furukawa K, Suzuki R (1987) "A Hierarchical Neural-Network Model for Control and Learning of Voluntary Movement." *Bio. Cybern.*, **57**:169–185.

Kelso SR, Ganong AH, Brown TH (1986) "Hebbian Synapses in Hippocampus." *PNAS USA*, **83**:5326–5330.

Khinchin A.I. *Mathematical Foundations of Information Theory*. Dover, New York.

- Kirk DE (1970) *Optimal Control Theory*. Prentice Hall, Englewood Cliffs, N.J.
- Kirkpatrick S, Gelatt CD, Vecchi MP (1983) "Optimization by Simulated Annealing." *Science*, **220**:671–680.
- Kirkpatrick S (1984) "Optimization by Simulated Annealing: Quantitative Studies." *J. Stat. Phys.*, **34**:975–986.
- King AJ, Hutchings ME, Moore DR, Blakemore C (1988) "Developmental Plasticity in the Visual and Auditory Representations in the Mammalian Superior Colliculus." *Nature*, **332**:73–76.
- Knudsen EI, du Lac S, Esterly SD (1987) "Computational Maps in the Brain." *Ann. Rev. Neurosci.*, **10**:41–65.
- Kohonen T (1972) "Correlation Matrix Memories." *IEEE*, **C21**:353–359.
- Kohonen T (1982a) "Self-Organized Formation of Topologically Correct Feature Maps." *Bio. Cybern.*, **43**:59–69.
- Kohonen T (1982b) "Analysis of a Simple Self-Organizing Process." *Bio. Cybern.*, **44**:135–140.
- Kohonen T (1982c) "Clustering, Taxonomy and Topological Maps of Patterns." *Proc. 6th Int. Conf. on Pattern Recognition*, Munich, 114–128.
- Kohonen T (1984a) "Self-Organization and Associative Memory." *Springer Series in Information Sciences* 8, Heidelberg.
- Kohonen T, Mäkisara K, Saramäki T (1984b) "Phonotopic maps—Insightful Representation of Phonological Features for Speech Recognition." *Proc. 7th Int. Conf. on Pattern Recognition*, Montreal, 182–185.
- Kohonen T (1986) "Learning Vector Quantization for Pattern Recognition." Report TTK-F-A601, Helsinki University of Technology.
- Korn A (1982) *Bildverarbeitung durch das visuelle System*. Fachberichte Messen, Steuern, Regeln 8, Springer-Verlag, Heidelberg.

Kuperstein M (1987) “Adaptive Visual-Motor Coordination in Multi-joint Robots Using Parallel Architecture.” *Proc. IEEE Int. Conf. Automat. Robotics*, 1595–1602, Raleigh N.C.

Kuperstein M (1988) “Neural Model of Adaptive Hand-Eye Coordination for Single Postures.” *Science*, **239**:1308–1311.

Lawley DN, Maxwell AE (1963) *Factor Analysis as a Statistical Method*. Butterworths, London.

Lee C, Rohrer WH, Sparks DL (1988) “Population Coding of Saccadic Eye Movements by Neurons in the Superior Colliculus.” *Nature*, **332**:357–360.

Lemon R (1988) “The Output Map of the Primate Motor Cortex: Trends.” *Neural Sci.*, **11**:501–506.

Lin S, Kernighan BW (1973) “An Effective Heuristic for the Travelling Salesman Problem.” *Optimization Research*, **21**:498–516.

Linde Y, Buzo A, Gray RM (1980) “An Algorithm for Vector Quantizer Design.” *IEEE Trans. Comm.*, **28**:84–95.

Little WA (1974) “The Existence of Persistent States in the Brain.” *Math. Biosci.*, **19**:101–120.

Little WA, Shaw GL (1975) “A Statistical Theory of Short and Long Term Memory.” *Behav. Bio.*, **14**:115–133.

Luttrell SP (1989) “Self-Organization: A Derivation from First Principles of a Class of Learning Algorithms.” *Proc. IJCNN 89*, **II**:495–498, Washington, D.C.

Makhoul J, Roucos S, Gish H (1985) “Vector Quantization in Speech Coding.” *Proc. IEEE*. **73**:1551–1588.

von der Malsburg C (1973) “Self-Organization of Orientation Sensitive Cells in the Striate Cortex.” *Kybernetik*, **14**:85–100.

von der Malsburg C, Willshaw DJ, (1977) “How to Label Nerve Cells So That They Can Interconnect in an Ordered Fashion.” *Proc. Nat. Acad. Sci. USA*, **74**:5176–5178.

von der Malsburg C (1979) "Development of Ocularity Domains and Growth Behavior of Axon Terminals." *Bio. Cybern.*, **32**:49–62.

von der Malsburg C (1982) "Outline of a Theory for the Ontogenesis of Iso-Orientation Domains in Visual Cortex." *Bio. Cybern.*, **45**:49–56.

Marks KM, Goser KF (1987) "AI Concepts for VLSI Process Modelling and Monitoring." Preprint.

Marr D (1969) "A Theory of Cerebellar Cortex." *J. Physiol.*, **202**:437–470.

Martinetz T, Ritter H, Schulten K (1988) "Kohonen's Self-Organizing Map for Modeling the Formation of the Auditory Cortex of a Bat." *SGAICO Proc. Connectionism in Perspective*, 403–412, Zurich.

Martinetz T, Ritter H, Schulten K (1989) "3D-Neural Net for Learning Visuomotor-Coordination of a Robot Arm." *IJCNN-89, Conf. Proc.*, **II**:351–356, Washington,.

Martinetz T, Ritter H, Schulten K (1990a) "Three-dimensional Neural Net for Learning Visuomotor-Coordination of a Robot Arm." *IEEE Trans. on Neur. Net.*, **1**(1):131–136.

Martinetz T, Ritter H, Schulten K (1990b) "Learning of Visuomotor Coordination of a Robot Arm with Redundant Degrees of Freedom." *ICNC-90 Proc. Int. Conf. on Parallel Processing; Neur. Sys. and Comp.*, D'usseldorf, 431–434, R, Eckmiller G, Hartmann, and G Hauske (eds.), North-Holland, Amsterdam; and in *ISRAM-90 Proc. Third Int. Symp. Robot. and Mfg., Vancouver, B.C.*, 521–526.

Martinetz T, Schulten K (1990) "Hierarchical Neural Net for Learning Control of a Robot's Arm and Gripper." *IJCNN-90 Conf. Proc., San Diego 1990*, **III**:747–752.

McCulloch WS, Pitts W (1943) "A Logical Calculus of the Ideas Immanent in Nervous Activity." *Bull. Math. Biophys.* **5**:115–133.

Merzenich MM, Knight PL, Roth GL (1975) . *J. Neurophysiol.*, **38**:231.

Miller KD, Keller JB, Stryker MP (1989) "Ocular Dominance Column Development: Analysis and Simulation." *Science*, **245**:605–615.

Miller WT (1989) “Real-Time Application of Neural Networks for Sensor-Based Control of Robots with Vision.” *IEEE Trans. Sys., Man, and Cybern.*, **19**(4):825-831.

Minsky M, Papert S (1969) *Perceptrons*. MIT Press, Cambridge, Mass.

Mountcastle VB (1978) “An Organizing Principle for Cerebral Function: The Unit Module and the Distributed System.” *The Mindful Brain*, GM Edelman and VB Mountcastle (eds.), 7–50. MIT Press, Cambridge, Mass.

Murphy JT, Kwan HC, MacKay WA, Wong YC (1977) “Spatial Organization of Precentral Cortex in Awake Primates. III. Input-Output Coupling.” *J. Neurophysiol.*, **41**:1132–1139.

Nelson W (1983) “Physical Principles for Economies of Skilled Movements.” *Biol. Cybern.*, **46**:135–147

Obermayer K, Ritter H, Schulten K (1989) “Large-Scale Simulation of a Self-Organizing Neural Network: Formation of a Somatotopic Map.” *Parallel Processing in Neural Systems and Computers*, Eckmiller et al. (eds.), 71–74, North Holland, Amsterdam.

Obermayer K., Ritter H., Schulten K. (1990a) “Large-Scale Simulations of Self-Organizing Neural Networks on Parallel Computers: Application to Biological Modelling.” *Parallel Computing*, **14**:381–404.

Obermayer K, Ritter H, Schulten K (1990b) “A Neural Network Model for the Formation of Topographic Maps in the CNS: Development of Receptive Fields.” *IJCNN-90 Conf. Proc.*, **II**:423–429. San Diego.

Obermayer K, Ritter H, Schulten K (1990c) “A Principle for the Formation of the Spatial Structure of Cortical Feature Maps.” *Proc. Nat. Acad. Sci. USA*, **87**:8345–8349.

Obermayer K, Blasdel GG, Schulten K (1991) “A Neural Network Model for the Formation and for the Spatial Structure of Retinotopic Maps, Orientation- and Ocular-Dominance Columns.” *ICANN-91*, Helsinki, June 1991.

Overton KJ, Arbib MA (1982) “The Branch Arrow Model of the Formation of Retino-Tectal Connections.” *Bio. Cybern.*, **45**:157–175

Palm G (1980) “On Associative Memory.” *Bio. Cybern.*, **36**:19-31.

Palm G (1981) “On the Storage Capacity of an Associative Memory with Randomly Distributed Storage Elements.” *Bio. Cybern.* **39**:125–127.

Pearson JC, Finkel LH, Edelman GM (1987) “Plasticity in the Organization of Adult Cerebral Maps: A Computer Simulation Based on Neuronal Group Selection.” *J. Neurosci.*, **12**:4209–4223.

Pellionisz A, Llinas R (1979) “Brain Modelling by Tensor Network Theory and Computer Simulation. The Cerebellum: Distributed Processor for Predictive Coordination.” *Neurosci.*, **4**:323–348.

Ramón y Cajal S (1955) *Histologie du Systeme Nerveux. II.*, C.S.I.C., Madrid.

Rauschecker JP, Singer W (1981) “The Effects of Early Visual Experience on the Cat’s Visual Cortex and Their Possible Explanation by Hebb-Synapses.” *J. Physiol.*, **310**:215–239.

Ritter H, Schulten K (1986a) “On the Stationary State of Kohonen’s Self-Organizing Sensory Mapping.” *Bio. Cybern.*, **54**:99–106.

Ritter H, Schulten K (1986b) “Topology Conserving Mappings for Learning Motor Tasks.” *Neural Networks for Computing*, JS Denker (ed.) *AIP Conf Proc.*, **151**:376–380, Snowbird, Utah.

Ritter H, Schulten K (1987) “Extending Kohonen’s Self-Organizing Mapping Algorithm to Learn Ballistic Movements.” *Neural Computers*, R Eckmiller and E von der Malsburg (eds.), Springer, Heidelberg, 393–406.

Ritter H, Schulten K (1988) “Kohonen’s Self-Organizing Maps: Exploring their Computational Capabilities.” *IEEE ICNN 88 Conf.*, **I**:109–116, San Diego.

Ritter H, Schulden K (1989) "Convergence Properties of Kohonen's Topology Conserving Maps: Fluctuations, Stability, and Dimension Selection." *Bio. Cybern.*, **60**:59–71.

Ritter H, Martinetz T, Schulden K (1989a) "Topology Conserving Maps for Learning Visuomotor-Coordination." *Neural Networks*, **2**:159–168.

Ritter H, Martinetz T, Schulden K (1989b) "Topology Conserving Maps for Motor Control." *Neural Networks, from Models to Applications*, (L Personnaz and G Dreyfus (eds.), I.D.S.E.T. Paris, 579–591.

Ritter H, Martinetz T, Schulden K (1989c) Ein Gehirn für Roboter—Wie neuronale Netzwerke Roboter steuern können. MC-Mikrocomputerzeitschrift, Franzis-Verlag München, Feb. 1989.

Ritter H (1989) "Asymptotic Level Density for a Class of Vector Quantization Processes." *Internal Report A9*, Helsinki Univ. of Technology. IEEE Trans. on Neural Networks, Jan. 1991.

Ritter H, Kohonen T (1989) "Self-Organizing Semantic Maps." *Bio. Cybern.*, **61**:241–254.

Ritter H, Kohonen T (1990) "Learning 'Semantotopic Maps' from Context." *IJCNN-90, Conf. Proc.*, 1990, **1**:23–26 Washington, D.C.

Ritter H. (1990) "Motor Learning by 'Charge' Placement with Self-Organizing Maps." *Neural Networks for Sensory and Motor Systems*, R Eckmiller (ed.), Elsevier, Amsterdam.

Robinson DA (1973) "Models of the Saccadic Eye Movement Control System." *Kybernetik*, **14**:71–83.

Rosenblatt F (1958) "The Perceptron: A Probabilistic Model for Information Storage and Organization in the Brain." *Psych. Rev.*, **65**:386–408.

Rosenblatt F (1961) *Principles of Neurodynamics: Perceptrons and the Theory of Brain Mechanisms*. Spartan Books, Washington, D.C.

Rubner J, Schulden K (1990) "A Self-Organizing Network for Complete Feature Extraction." *Bio. Cybern.*, **62**:193–199.

- Rumelhart DE, McClelland JL (1984) *Parallel Distributed Processing*. MIT Press, Cambridge, Mass.
- Rumelhart DE, Hinton GE, Williams RJ (1986) “Learning Representations by Back-Propagating Errors.” *Nature*, **323**:533–536.
- Saltzman EL (1979) “Levels of Sensorimotor Representation.” *J. Math. Psy.*, **20**:91–163.
- Schwartz EL (1980) “Computational Anatomy and Functional Architecture of Striate Cortex: A Spatial Mapping Approach to Perceptual Coding.” *Vision Res.*, **20**:645–669.
- Sejnowski T, Rosenberg CR (1987) “Parallel Networks That Learn to Pronounce English Text.” *Complex Systems*, **1**:145–168.
- Sparks DL, Nelson JS (1987) “Sensory and Motor Maps in the Mammalian Superior Colliculus.” *TINS*, **10**:312–317.
- Steinbuch K (1961) “Die Lernmatrix.” *Kybernetik*, **1**:36–45.
- Suga N, Jen PH (1976) “Disproportionate Tonotopic Representation for Processing CF–FM Sonar Signals in the Mustache Bat Auditory Cortex.” *Science*, **194**:542–544.
- Suga N, O’Neill WE (1979) “Neural Axis Representing Target Range in the Auditory Cortex of the Mustache Bat.” *Science*, **206**:351–353.
- Takeuchi A, Amari S (1979) “Formation of Topographic Maps and Columnar Microstructures.” *Bio. Cybern.*, **35**:63–72.
- Taylor WK (1956) “Electrical Simulation of Some Nervous System Functional Activities.” *Information Theory*, C Cherry (ed.), 314–328, Butterworths, London.
- Walker MW, Orin DE (1982) “Efficient Dynamic Computer Simulation of Robotic Mechanisms.” *J. Dyn. Sys., Meas., and Cont.*, **104**:205–211.
- Werbos P (1974) “Beyond Regression: New Tools for Prediction and Analysis in the Behavioral Sciences.” Ph.D. thesis, Harvard Univ. Committee on Applied Mathematics.

Widrow B, Hoff ME (1960) "Adaptive Switching Circuits." *WESCON Conv. Rec.*, **IV**:96–104.

Willshaw DJ, Buneman OP, Longuet-Higgins HC (1969) "Non-Holographic Associative Memory." *Nature* **222**:960–962.

Willshaw DJ, von der Malsburg C (1976) "How Patterned Neural Connections Can Be Set up by Self-Organization." *Proc. R. Soc. London*, **B194**:431–445.

Willshaw DJ, von der Malsburg C (1979) "A Marker Induction Mechanism for the Establishment of Ordered Neural Mappings: Its Application to the Retinotectal Problem." *Proc. R. Soc. London*, **B287**:203–243.

Woolsey CN, Harlow HF (1958) *Biological and Biochemical Basis of Behavior*. Univ. of Wisconsin Press, Madison, 63–81.

Wurtz RH, Goldberg ME, Robinson DL (1986) Neuronale Grundlagen der visuellen Aufmerksamkeit. *Wahrnehmung und visuelles System, Spektrum der Wissenschaft*, Heidelberg, 58–66.

Zipser D, Andersen RA (1988) "A Back-Propagation Programmed Network That Simulates Response Properties of a Subset of Posterior Parietal Neurons." *Nature*, **331**:679–683.