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A logical calculus of the ideas immanent in nervous activity

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2260	.		
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2256	Adaptive classifiers using ontogenetic neural networks with feedback.		
2255	A simple 6-bit neural-based A/D converter employing only CMOS inverters.		
2254	A statistical consequence of the logical calculus of nervous nets. *The Bulletin of Mathematical Biophysics*, **1943**, 5, 135-137		41
2253	Muscular dynamics and muscular efficiency: I. The isometric length-tension diagram of striated skeletal muscle. *The Bulletin of Mathematical Biophysics*, **1945**, 7, 5-13		
2252	Mathematical biophysics of abstraction and logical thinking. *The Bulletin of Mathematical Biophysics* , **1945**, 7, 133-148		6
2251	A reinterpretation of the mathematical biophysics of the central nervous system in the light of neurophysiological findings. *The Bulletin of Mathematical Biophysics*, **1945**, 7, 151-160		17
2250	Some remarks on the Boolean algebra of nervous nets in mathematical biophysics. *The Bulletin of Mathematical Biophysics*, **1945**, 7, 203-11		7
2249	A suggestion for another statistical interpretation of the fundamental equations of the mathematical biophysics of the central nervous system. *The Bulletin of Mathematical Biophysics*, **1945**, 7, 223-6		7
2248	A heterarchy of values determined by the topology of nervous nets. *The Bulletin of Mathematical Biophysics*, **1945**, 7, 89-93		217
2247	Mathematical biophysics and the central nervous system. **1946**, 8, 67-76		
2246	Outline of a matrix calculus for neural nets. *The Bulletin of Mathematical Biophysics*, **1946**, 8, 75-81		17

2245	The neural mechanism of logical thinking. *The Bulletin of Mathematical Biophysics*, **1946**, 8, 29-40	7
2244	A matrix calculus for neural nets. *The Bulletin of Mathematical Biophysics*, **1947**, 9, 99-108	10
2243	Interaction of cycles. *The Bulletin of Mathematical Biophysics*, **1948**, 10, 123-9	2
2242	Mathematical biophysics of some neural nets. *The Bulletin of Mathematical Biophysics*, **1948**, 10, 1-10	4
2241	A mechanism for optic nerve conduction and form perception. *The Bulletin of Mathematical Biophysics*, **1948**, 10, 31-40	5
2240	A statistical approach to the theory of the central nervous system. *The Bulletin of Mathematical Biophysics*, **1948**, 10, 41-55	30
2239	The Neurological and Behavioristic Psychological Basis of the Ordering of Society by Means of Ideas. **1948**, 107, 411-7	12
2238	Charting the Sea of Brain Waves. **1948**, 108, 343-7	25
2237	Physiological psychology. **1949**, 11, 269-96	2
2236	The group structure of some neural nets. *The Bulletin of Mathematical Biophysics*, **1949**, 11, 51-8	1
2235	The Synthesis of Two-Terminal Switching Circuits. **1949**, 28, 59-98	444
2234	Contribution to the probabilistic theory of neural nets: III. Specific inhibition. *The Bulletin of Mathematical Biophysics*, **1950**, 12, 317-325	6
2233	Contribution to the probabilistic theory of neural nets: II. Facilitation and threshold phenomena. *The Bulletin of Mathematical Biophysics*, **1950**, 12, 187-197	20
2232	Contributions to the mathematical biophysics of the central nervous system with special reference to learning. *The Bulletin of Mathematical Biophysics*, **1950**, 12, 241-275	29
2231	Biophysical Aspects of Nervous Function. **1951**, 2, 117-192	
2230	Philosophical anthropology and world law. **1951**, 14, 109-12	
2229	Recent Advances in Mathematical Statistics: Bibliography, 1943-47. **1951**, 114, 497	
2228	A note on the McCulloch-Pitts neural net for heat-cold discrimination. *The Bulletin of Mathematical Biophysics*, **1951**, 13, 21-22	1

2227	A duplex theory of pitch perception. **1951**, 7, 128-34	399
2226	CXXIV. Programming a digital computer to learn. **1952**, 43, 1243-1263	17
2225	Quelques r̂sultats sur l̂application de l̂alg̃bre de Boole a la synth̃se des circuits a relais. **1952**, 7, 75-84	8
2224	The limiting information capacity of a neuronal link. *The Bulletin of Mathematical Biophysics*, **1952**, 14, 127-135	210
2223	A history of the theory of information. **1953**, 1, 22-43	3
2222	Computers and Automata. **1953**, 41, 1234-1241	32
2221	Theory of Logical Nets. **1953**, 41, 1357-1365	35
2220	The Rhythmic Activity of the Nervous System. **1953**, 20, 42-58	
2219	The Mechanism of an Instinctive Control System: a Hypothesis. **1954**, 6, 85-117	42
2218	Information theory in biology. *The Bulletin of Mathematical Biophysics*, **1954**, 16, 183-185	3
2217	Modern Logic and Tasks for Experiments on Problem Solving Behavior. **1954**, 38, 151-160	15
2216	On the design of automata and the interpretation of cerebral behavior. **1955**, 20, 149-162	6
2215	Application of information networks to a theory of vision. *The Bulletin of Mathematical Biophysics*, **1955**, 17, 15-33	3
2214	An introduction to the application of Boolean algebra to psychiatry. **1955**, 29, 48-59	3
2213	Electroencephalography. **1955**, 252, 20-6; contd	
2212	Properties of a mass of cells capable of regenerating pulses. **1956**, 240, 55-94	228
2211	Logical networks and behavior. *The Bulletin of Mathematical Biophysics*, **1956**, 18, 337-348	9
2210	Tests on a cell assembly theory of the action of the brain, using a large digital computer. **1956**, 2, 80-93	154

2209	The logical design of an idealized general-purpose computer. **1956**, 261, 421-436	3
2208	Toward some circuitry of ethical robots or an observational science of the genesis of social evaluation in the mind-like behavior of artifacts. **1956**, 11, 147-156	5
2207	The Human Computer in Flight Control. **1957**, EC-6, 195-202	4
2206	Über die Wahrnehmung der Bewegung von Figuren und unregelmäßigen Helligkeitsmustern. **1957**, 40, 556-592	37
2205	A note on the control of spontaneous activity in nervous systems. *The Bulletin of Mathematical Biophysics*, **1958**, 20, 155-160	2
2204	Reliable stochastic sequential switching circuits. **1958**, 77, 606-611	9
2203	Logical Machine Design: A Selected Bibliography. **1958**, EC-7, 155-178	5
2202	Machines and the Brain. **1958**, 128, 549-50	
2201	Algebraic topological methods for the synthesis of switching systems. I. **1958**, 88, 301-301	37
2200	Lernende Automaten. **1959**, 1, 112-118	3
2199	A mathematical interpretation of motor reactions to fixed and moving stimulation of the eye. *The Bulletin of Mathematical Biophysics*, **1959**, 21, 327-341	2
2198	Circle networks of probabilistic transducers. **1959**, 2, 168-182	1
2197	Toward a mathematical description of the grey substance of nervous systems. **1960**, 18, 149-165	19
2196	On a method of storing information. *The Bulletin of Mathematical Biophysics*, **1960**, 22, 139-168	5
2195	VIII. References. **1961**, 539-550	
2194	Structural redundancy and reliability of relay circuits. **1960**, 1, 848-854	0
2193	A Review of Theory in Physiological Psychology. **1960**, 11, 1-40	97
2192	A Selected Descriptor-Indexed Bibliography to the Literature on Artificial Intelligence. **1961**, HFE-2, 39-55	19

2191	. **1961**,	38
2190	Mathematical models of neurone interaction. **1961**,	
2189	The Theory of Automata, a Survey. **1961**, 2, 379-421	22
2188	A note on mathematical models for the interaction of neural elements. *The Bulletin of Mathematical Biophysics*, **1961**, 23, 91-97	15
2187	Computer models of cognitive processes. **1961**, 26, 85-91	10
2186	Self-Organizing Systems-A Review and Commentary. **1961**, 49, 31-48	32
2185	INDIVIDUAL AND COLLECTIVE PROBLEMS IN THE STUDY OF THINKING. **1961**, 91, 22-37	
2184	Theory of majority decision elements. **1961**, 271, 376-418	102
2183	Outline of a theory of thought-processes and thinking machines. **1961**, 1, 204-35	361
2182	Funktionelle Deutung von Strukturen in der grauen Substanz des Nervensystems. **1961**, 48, 489-496	8
2181	Studies with artificial neurons. I. Properties and functions of an artificial neuron. **1961**, 1, 89-101	114
2180	Finite Automata, Pattern Recognition and Perceptrons. **1961**, 8, 1-20	5
2179	Turing Machines, Finite Automata and Neural Nets. **1961**, 8, 467-475	8
2178	The Perceptron: A Model for Brain Functioning. I. **1962**, 34, 123-135	203
2177	. **1962**, EC-11, 324-335	19
2176	Design principles for an intelligent machine. **1962**, 8, 179-185	4
2175	Un modle du neurone. *The Bulletin of Mathematical Biophysics*, **1962**, 24, 159-181	3
2174	[Transmission of information in the afferent visual system]. **1962**, 1, 175-92	30

2173	[The information capacity of single nerve cells for the signal transmission in the central nervous system]. **1962**, 1, 209-11	13
2172	A note on myeloarchitectonics. **1962**, 118, 141-56	67
2171	Molecular algorithms. **1963**, 5, 266-87	35
2170	[REFLEXES AND ANALYZER CENTERS IN ISOTROPIC MICROSTRUCTURES]. *The Bulletin of Mathematical Biophysics*, **1963**, 25, 421-69	0
2169	The Engineering Approach to the Problem of Biological Integration. **1963**, 2, 22-29	
2168	Learning Machines. **1963**, 1, 393-411	4
2167	Simulation of biological cells by systems composed of string-processing finite automata. **1964**,	1
2166	A Sampled-Data Analog of Neuron Properties. **1964**, EC-13, 744-745	
2165	An Approach to Single-Threshold-Element Synthesis. **1964**, EC-13, 519-528	12
2164	The problem of organismic reliability. **1965**, 17, 9-63	10
2163	Fields and waves in excitable cellular structures. **1965**, 17, 244-57	3
2162	Probability-statistical model of the brain organisation. **1965**, 17, 350-5	2
2161	Algorithmically unsolvable problems for a cell automaton. **1965**, 8, 371-94	12
2160	Mathematical approach to the study of a cerebral cortex. I. Histological methods of calculating the coupling coefficients in the neuronic equations. **1965**, 8, 54-70	7
2159	Gehirn und Intelligenz. **1965**, 25, 35-62	2
2158	On cybernetics, information processing and thinking. **1965**, 17, 118-38	3
2157	[Comparison of the Hodgkin-Huxley and Nelson neuron models]. *The Bulletin of Mathematical Biophysics*, **1966**, 28, 347-54	
2156	The Logical Structure of Evolution and Emanation*. **1967**, 138, 874-891	3

2155	On the use of theories, models and cybernetical toys in brain research. **1967**, 6, 201-16	3
2154	An automaton analysis approach to the study of neural nets. **1967**, 1, 173-86	2
2153	Brain and physics of many-body problems. **1967**, 4, 44-8	139
2152	Computation in neural nets. **1967**, 1, 47-93	1
2151	Two-factor models, neural nets and biochemical automata. **1967**, 15, 282-97	27
2150	Where is capacity limited? A survey and a model. **1967**, 27, 84-92	268
2149	Spectral analysis of pulse frequency modulation in the nervous systems. **1968**, 15, 257-65	149
2148	Simulation of neural nets with some applications to visual information processing. **1968**, 1, 435-51	4
2147	The evolution of the primate brain: some aspects of quantitative relations. **1968**, 7, 121-72	146
2146	A Note on Logically-Stable Neural Nets. **1968**, 2, 398-406	
2145	The contribution of information theory to pathological mechanisms in psychiatry. **1968**, 114, 1485-98	6
2144	A speculative mathematical model of the psychophysiologic system. **1969**, 164, 409-26	
2143	Visual Feature Extraction by a Multilayered Network of Analog Threshold Elements. **1969**, 5, 322-333	40
2142	Cyclic modes in neural net models. *The Bulletin of Mathematical Biophysics*, **1969**, 31, 505-17	2
2141	Learned specification of concept neurons. *The Bulletin of Mathematical Biophysics*, **1969**, 31, 123-42	10
2140	A phase-shift model for the spatial and temporal organization of developing systems. **1969**, 25, 49-107	281
2139	Reflex and autorhythmicity: A formal model. **1969**, 4, 33-38	4
2138	The prerogatives of systems. **1969**, 3, 4-12	1

2137	Control Theory and Decision Making in Organisations A Reconnaissance. **1970**, 3, T46-T48	1
2136	Cybernetics: A Case Study of a Scientific Subject-Complex. **1970**, 18, 93-116	2
2135	A model for cortical memory. **1970**, 7, 37-59	41
2134	A new unit of frequency. *The Bulletin of Mathematical Biophysics*, **1970**, 32, 453-454	
2133	Proposed New Unit of Frequency. **1970**, 225, 394-395	3
2132	Some Psychological Properties of Digital Learning Nets. **1970**, 2, 189-212	4
2131	Brain functions and neural dynamics. **1970**, 26, 93-120	138
2130	A Recognition Algorithm for Handprinted Arabic Numerals. **1970**, 6, 246-250	3
2129	Proposed New Unit: Pitts. **1970**, 6, 250-250	
2128	A review of □erceptrons: An introduction to computational geometry?. **1970**, 17, 501-522	20
2127	A note on logically stable neural nets. **1970**, 6, 615-620	2
2126	The possibilities of neural holographic processes within the brain. **1970**, 7, 129-53	141
2125	Probabilistic models for determining the input-output relationship in formalized neurons. I. A theoretical approach. **1970**, 7, 175-83	8
2124	Animal, vegetable, or minerai?. **1970**, 213-234	
2123	V. The Structural Elements of the Vertebrate Nervous System. **1970**, 3, 1-818	
2122	Brain models: a brief review□□Invited paper.. **1970**, 1, 75-88	
2121	New intermediate unit of frequency--pitts. **1970**, 19, 1	3
2120	Characteristics of randomly connected threshold-element networks and network systems. **1971**, 59, 35-47	99

2119	A study of the relationship between multipath distortion and wavenumber spectrum of refractive index in radio links. **1971**, 59, 47-75	8
2118	Education in biomedical engineering. **1971**, 59, 868-879	3
2117	Formalisms for biology: a hierarchy of developmental processes. **1971**, 2, 219-32	2
2116	On columnar arrangement of nerve cells in cerebral cortex. **1971**, 27, 1-9	79
2115	In search of processes: The early history of cybernetics. **1971**, 11, 5-29	9
2114	Local reverberations in the nervous system and memory. **1971**, 12, 225-233	1
2113	Integration in the nervous system: the starch for its mechanisms. **1971**, 1, 175-80	
2112	Linear analysis of switching nets. **1971**, 8, 31-9	35
2111	On some dynamical properties of linear and affine networks. **1971**, 8, 123-7	4
2110	Information processing in the central nervous system during functional electrical stimulation. **1971**, 9, 675-82	7
2109	Mathematical biophysics of sustained nonperiodic oscillations of excitation and inhibition in the central nervous system. *The Bulletin of Mathematical Biophysics*, **1971**, 33, 539-53	7
2108	Mathematical simulation of the electroencephalogram using an autoregressive series. **1971**, 2, 281-307	26
2107	An Application of Boolean Algebra to Biology. **1971**, 71, 318-324	
2106	Toward an automata theory of brains. **1972**, 15, 521-527	1
2105	On shrinking binary picture patterns. **1972**, 15, 7-10	87
2104	AN AUTOMATON WITH BRAIN-LIKE PROPERTIES. **1972**, 1, 11-18	7
2103	Cybernetics□A Systems Approach to Management. **1972**, 1, 28-39	3
2102	Cofunction in composite systems. **1972**, 14, 355-365	

2101 Regional differentiation of the axon: a review with special reference to the concept of the multiplex neuron. **1972**, 47, 269-88 121

2100 Waves, Pulses, and the Theory of Neural Masses. **1972**, 87-165 42

2099 III: The organ. **1972**, 4, 207-256

2098 An iterative array which can represent the rotation and translation of objects. **1972**, 4, 85-103

2097 Spontaneous behaviour in neural networks. **1972**, 36, 513-28 63

2096 [Information theory and signal processing in sense organs and the central nervous system]. **1972**, 59, 436-47 22

2095 . **1972**, SMC-2, 380-388 211

2094 Investigation of a Learning Control System with Interpolation. **1972**, SMC-2, 388-395 2

2093 A note on epilepsies and similar disorders. *The Bulletin of Mathematical Biophysics*, **1972**, 34, 213-22 3

2092 Some remarks on the central nervous system. *The Bulletin of Mathematical Biophysics*, **1972**, 34, 231-42 2

2091 A neuronal circuit modeling program. **1973**, 6, 487-97 4

2090 Realization of n-State Homogeneous Machines Using n - 1 Neurons. **1973**, SMC-3, 286-288

2089 Kinetic approach to neural systems. **1973**, 6, 29-30 5

2088 Is the brain an effective computer?. **1973**, 5, 167-70 8

2087 Living systems. II. The organism. **1973**, 48, 92-276 10

2086 Cellular Automata, Formal Languages and Developmental Systems. **1973**, 74, 677-691

2085 Dynamics of Cerebello-Pontine Reverberating Circuit. **1973**, 6, 535-537

2084 Machines in a Category: An Expository Introduction. **1974**, 16, 163-192 91

2083	The development of multiple-valued logic as related to computer science. **1974**, 7, 20-32	37
2082	BIOLOGICAL SYSTEMS AS ORGANIZATIONAL PARADIGMS This article was prepared when the author was a Visiting Fellow at the Center for the Study of Democratic Institutions in Santa Barbara, California, during the Academic Year 1971-72. It is published here by permission of the Center.. **1974**, 1, 165-174	14
2081	Ecofeedback and Significance Feedback in Neural Nets and in Society. **1974**, 4, 61-72	0
2080	The validity of subjective information as a formal concept applied to empirical analysis. **1974**, 5, 23-43	1
2079	Improved neuronal models for studying neural networks. **1974**, 15, 1-9	90
2078	Networks of neural nuclei. **1974**, 16, 69-77	4
2077	Über die logische Struktur eines Nervensystems. **1974**, 95, 123-167	1
2076	Evolutionary learning circuits. **1974**, 46, 167-88	74
2075	A dynamical behaviour of active regions in randomly connected neural networks. **1974**, 48, 51-73	4
2074	Localized oscillations in neural networks. I. General considerations with nonlinear differential equations. **1974**, 47, 421-37	0
2073	Some properties of transmission lines composed of random networks. **1974**, 22, 155-178	0
2072	Molecular Information Processing in the Central Nervous System. **1974**, 82-107	11
2071	Integrative properties and design principles of axons. **1975**, 18, 1-40	70
2070	I. An electrochemical model of the brain: General theory and the single neuron. **1975**, 3, 53-76	9
2069	From automata theory to brain theory. **1975**, 7, 279-295	13
2068	Logic, biology and automata-some historical reflections. **1975**, 7, 297-312	18
2067	Functional analysis of chemical systems in vivo using a logical circuit equivalent. V. Molecular biological interpretation of the self-reproducing automata theory and chemico-physical interpretation of information in biological systems. **1975**, 53, 223-37	6
2066	Control of switching nets. **1975**, 19, 137-45	7

2065 Classification of biological networks by their qualitative dynamics. **1975**, 54, 85-107 184

2064 THE LOGIC OF AUTOMATA. **1975**, 2, 191-208 9

2063 Perceptual-learning machines and the brain. **1975**, 1, 301-314 4

2062 [Models of behavior]. **1975**, 5, 194-202

2061 A model for psychophysical discrimination. **1975**, 23, 191-204 2

2060 Fuzzy Neural Networks. **1975**, 23, 151-177 113

2059 A comparison of natural and artificial intelligence. **1975**, 11-13 4

2058 Neuronal membrane: a physical synthesis. **1976**, 28, 191-219 28

2057 Directions in Mathematical Psychology, II. **1976**, 83, 153-172

2056 Directions in Mathematical Psychology, I. **1976**, 83, 85-106

2055 Pattern recognition by deformable prototypes. **1976**, 15-57 5

2054 Visual control of orientation behaviour in the fly. Part II. Towards the underlying neural interactions. **1976**, 9, 377-438 202

2053 Brain architecture and mechanisms that underlie language: an information-processing analysis. **1976**, 280, 240-56 2

2052 Language of organism: requisite fabric for an evolution of the speech function: some theoretical considerations. **1976**, 280, 456-66

2051 'Passive' thinking, a hypothesis. **1976**, 32, 1078-80

2050 Logica formale e attivita' nervosa superiore. **1976**, 46, 43-71

2049 Signal propagation in 2-dimensional threshold cellular space. **1976**, 3, 297-312 6

2048 On global properties of neuronal interaction. **1976**, 22, 85-95 40

2047	Stochastic automaton models for the temporal pattern discrimination of nerve impulse sequences. **1976**, 21, 121-30	12
2046	Neurodynamics--an approach to theoretical neurophysiology. **1976**, 24, 15-24	2
2045	A computer program for simulating a network of interacting neurons. I. Organization and physiological assumptions. **1976**, 9, 31-43	46
2044	Complementary molecular models of learning and memory. **1976**, 8, 119-38	35
2043	Firing probability of a neural network: first-order differential equation. **1976**, 58, 59-81	3
2042	THE LOGIC OF AUTOMATA. **1976**, 2, 191-208	31
2041	The representation of meaning in memory. **1977**, 4, 335-347	
2040	Information Systems Theory and Research: An Overview. **1977**, 1, 149-171	4
2039	XIII. The Telencephalon. **1977**, 5, 461-888	1
2038	Neurodynamics: A critical survey. **1977**, 15, 1-45	44
2037	Processing power and delay limits on human performance. **1977**, 16, 68-90	4
2036	A logical model of genetic activities in Lukasiewicz algebras: the non-linear theory. *The Bulletin of Mathematical Biophysics*, **1977**, 39, 249-58	12
2035	Gregory Bateson and the mathematicians: from interdisciplinary interaction to societal functions. **1977**, 13, 141-59	18
2034	Theoretical considerations of local neuron circuits and their triadic synaptic arrangements (TSA) in subcortical sensory nuclei. **1977**, 3, 1-10	14
2033	A Volterra representation for some neuron models. **1977**, 27, 113-24	21
2032	A neuron model as an universal element of self-learning networks for pattern recognition. **1977**, 26, 25-33	3
2031	M-cells: a logic circuit model to account for some features of CNS inhibition. **1978**, 29, 1-9	1
2030	How do normal subjects learn a simple adaptative task: how and why do paranoid schizophrenic patients fail?. **1978**, 225, 31-53	3

2029 Logical Structure of the Nervous System. **1978**, 8, 87-94 4

2028 Cochlear Dynamics: The Evolution of a Mathematical Model. **1978**, 20, 301-351 12

2027 XV. The Mammalian Cerebral Cortex. **1978**, 5, 165-383

2026 SIMULATION OF DRUG EFFECTS IN THE CENTRAL NERVOUS SYSTEM. **1978**, 7, 279-283

2025 Stable Dynamics of Genetic Networks. **1978**, 63-79

2024 A finite state model for meditation phenomena. **1979**, 49, 123-7

2023 Signal transmission in the nervous system. **1979**, 42, 1479-1532 5

2022 On the demystification of mental imagery. **1979**, 2, 535-548 265

2021 Formal languages: Origins and directions. **1979**, 2

2020 Periodic behavior of one-dimensional uniform threshold circuits. **1979**, 19, 33-65

2019 A probabilistic approach to networks. **1979**, 2, 1-18 42

2018 A comment on surface modulating assemblies. **1979**, 77, 383-4 2

2017 THE PALO ALTO GROUP: DIFFICULTIES AND DIRECTIONS OF THE INTERACTIONAL VIEW FOR HUMAN COMMUNICATION RESEARCH. **1979**, 5, 171-186 35

2016 Some comments on activation and inhibition. *The Bulletin of Mathematical Biophysics*, **1979**, 41, 427-45 8

2015 Origins of recursive function theory. **1979**, 2

2014 FLAWS OF FORM. **1979**, 5, 201-211 24

2013 Imagining the purpose of imagery. **1979**, 2, 548-549 2

2012 Matters of definition in the demystification of mental imagery. **1979**, 2, 549-550

2011	Neurologizing mental imagery: the physiological optics of the mind's eye. **1979**, 2, 550-550	
2010	Modeling the mind's eye. **1979**, 2, 550-551	
2009	On interpretative processes in imagery. **1979**, 2, 551-551	1
2008	So many models So little time. **1979**, 2, 551-552	
2007	Images, memory, and perception. **1979**, 2, 552-553	
2006	Understanding mental imagery: interpretive metaphors versus explanatory models. **1979**, 2, 553-554	1
2005	Mental Imagery and mystification. **1979**, 2, 554-555	1
2004	Imagery without arrays. **1979**, 2, 555-556	10
2003	Mental visualization in nonlaboratory situations. **1979**, 2, 556-557	
2002	The thoughtless imagery controversy. **1979**, 2, 557-558	1
2001	The imagery debate: a controversy over terms and cognitive styles. **1979**, 2, 558-559	3
2000	A conceptual, an experimental, and a modeling question about imagery research. **1979**, 2, 559-560	
1999	The imprecision of mental imagery. **1979**, 2, 560-560	
1998	Images, models, and human nature. **1979**, 2, 561-561	1
1997	Computational versus operational approaches to imagery. **1979**, 2, 561-561	1
1996	Imagery theory: not mysterious just wrong. **1979**, 2, 561-563	12
1995	Conscious and nonconscious imagery. **1979**, 2, 563-564	
1994	The demands of mental travel: demand characteristics of mental imagery experiments. **1979**, 2, 564-565	4

1993 On demystifying the mental for psychology. **1979**, 2, 565-566

1992 Al, imagery, and theories. **1979**, 2, 566-566

1991 The image-like and the language-like. **1979**, 2, 566-567

1990 Metaphor versus reality in the understanding of imagery: the path from function to structure. **1979**, 2, 567-568 1

1989 On spatial symbols. **1979**, 2, 568-569

1988 On the function of mental imagery. **1979**, 2, 569-570 2

1987 The how, what, and why of mental imagery. **1979**, 2, 570-581 33

1986 Are central pattern generators understandable?. **1980**, 3, 535-540 292

1985 Do different behaviors require different central pattern generators. **1980**, 3, 541-541

1984 Invertebrate central pattern generators: modeling and complexity. **1980**, 3, 542-543 2

1983 A new generation of experimental and theoretical methods is needed in neuroblology. **1980**, 3, 543-543

1982 Neurophilosophical reflections on central nervous pattern generations. **1980**, 3, 543-544 2

1981 Even Simple Systems are more complex than we thick. **1980**, 3, 544-545 4

1980 Bursting networks. **1980**, 3, 545-546

1979 Models, modelling, and the leech swimming rhythm. **1980**, 3, 546-546

1978 Models and multineuron recordings. **1980**, 3, 546-547

1977 Central pattern generators can be understood. **1980**, 3, 547-547

1976 Adaptive significance, redundancy, and variance in central pattern generators. **1980**, 3, 547-548

1975	The failure of current strategies in the study of central pattern generators. **1980**, 3, 548-549	
1974	Can mammalian pattern generators be understood?. **1980**, 3, 549-550	1
1973	Expectation and achievement in analysis of motor program generation. **1980**, 3, 552-553	
1972	Central pattern generators (CPGs) from the viewpoint of a behavioral physiologist. **1980**, 3, 553-554	
1971	A practical approach to understanding central pattern generators. **1980**, 3, 554-554	
1970	Pessimism, models, and episodic behavior. **1980**, 3, 554-555	
1969	On neuronal nihilism. **1980**, 3, 555-556	5
1968	Epistemology and heuristics in neural network research. **1980**, 3, 556-557	1
1967	Central pattern generators and sensory input. **1980**, 3, 557-557	
1966	Single-cell versus network properties and the use of models. **1980**, 3, 557-557	
1965	The comparative approach to understanding central pattern generators. **1980**, 3, 558-559	
1964	At what level will pattern generators be understood?. **1980**, 3, 559-559	
1963	Neuroethological analysis of central pattern generators. **1980**, 3, 559-560	
1962	Central pattern generators and neuroethology. **1980**, 3, 560-561	1
1961	Philosophy leads to pessimism, research to understanding. **1980**, 3, 561-561	
1960	Particulars and principles of nervous activity. **1980**, 3, 562-562	
1959	The implications of recent experimental results for the validity of modeling studies of the leech swim central pattern generator. **1980**, 3, 562-563	
1958	On the history and value of the central pattern generator concept. **1980**, 3, 563-563	

1957	Graded transmission, mechanistic multiplicity, and modeling. **1980**, 3, 563-564	
1956	Central pattern generator analysis is alive and well. **1980**, 3, 564-565	
1955	Toward understanding central pattern generators. **1980**, 3, 565-571	
1954	Snake oil and the modeling process in neurobiology. **1980**, 3, 541-542	
1953	Must neural mechanisms be Newtonian?. **1980**, 3, 550-551	2
1952	Roles for models in understanding neural networks. **1980**, 3, 551-552	
1951	WHITHER CYBERNETICS: PAST ACHIEVEMENTS AND FUTURE PROSPECTS. **1980**, 9, 289-293	
1950	Comparison of two unsupervised algorithms. **1980**, 37, 1-7	3
1949	On the respresentation of multi-input systems: computational properties of polynomial algorithms. **1980**, 37, 167-86	21
1948	Cellular spaces. **1980**, 1, 51-65	
1947	Periodic behaviour of generalized threshold functions. **1980**, 30, 187-189	66
1946	Towards a rationale for neural stability: a model of neural computation and network architecture. **1980**, 11, 447-59	
1945	Pattern processing and stability criteria in cellular logic networks. **1980**, 12, 157-162	1
1944	An Evaluation of Cell Function in Relation to Reverberatory Modes in Cellular Networks. **1980**, 10, 655-659	
1943	Texture Primitive Extraction Using an Edge-Based Approach. **1980**, 10, 659-675	3
1942	The Role of Finite Automata in the Development of Modern Computing Theory*. **1980**, 101, 61-83	3
1941	A neuron-like model for sensory illusions produced by two-point stimulation and the contrast phenomenon. **1980**, 51, 43-70	2
1940	Priming and retrieval from short-term memory: A speed accuracy trade-off analysis. **1980**, 19, 387-404	101

1939	Algorithmic and heuristic processing of information by the nervous system. **1980**, 11, 279-93	2
1938	Origins of Recursive Function Theory. **1981**, 3, 52-67	131
1937	Neural model with probabilistic firing behavior. I. general considerations.. **1981**, 56, 239-253	7
1936	Perceptual Structures and Distributed Motor Control. **1981**, 1449-1480	55
1935	AN AUTOMATA-THEORETICAL APPROACH TO DEVELOPING LEARNING NEURAL NETWORKS. **1981**, 12, 179-202	10
1934	GENERAL INPUT-OUTPUT RELATIONS FOR THE SYNAPTIC TRANSMISSION AND THE POST-SYNAPTIC INTEGRATION. **1981**, 10, 51-56	1
1933	The convergence of symmetric threshold automata. **1981**, 51, 98-104	17
1932	Threshold nets and cell-assemblies. **1981**, 49, 239-264	4
1931	[Physics of biological pattern formation]. **1981**, 68, 245-51	15
1930	Comportement periodique des fonctions a seuil binaires et applications. **1981**, 3, 93-105	57
1929	Formal Languages: Origins and Directions. **1981**, 3, 14-41	8
1928	Review article. **1981**, 19,	
1927	Chapter XV Effective Extraction of Information Included in Network Descriptions and Neuronal Spike Records. **1982**, 58, 179-193	
1926	Chapter III The Mathematics of Excitation. **1982**, 15-47	3
1925	In search of the conditions for the genesis of cell assemblies: A study in self-organization. **1982**, 5, 161-187	51
1924	Characterizations and constructions of reverberating networks. **1982**, 62, 201-217	3
1923	References / Subject Index. **1982**, 1, 265-281	
1922	References / Subject Index. **1982**, 2, 347-374	

1921	A behavioral summary for completely random nets. **1982**, 44, 309-320	7
1920	Stochastic information processing biological systems. **1982**, 15, 155-68	6
1919	A behavioral summary for completely random nets. **1982**, 44, 309-320	
1918	A simplified neuron model as a principal component analyzer. **1982**, 15, 267-73	1458
1917	Lattices and lattice-valued relations in biology. **1983**, 45, 193-207	1
1916	A neuromathematical model of human information processing and its application to science content acquisition. **1983**, 20, 603-620	16
1915	Relation between neurophysiological and mental states: possible limits of decodability. **1983**, 70, 282-7	41
1914	Lattices and lattice-valued relations in biology. **1983**, 45, 193-207	
1913	Computer simulations of learning in neural systems. **1983**, 16, 176-89	3
1912	Microscopic-macroscopic interface in biological information processing. **1983**, 16, 345-63	54
1911	Competition and cooperation in neural nets. **1983**, 8, 284-285	
1910	Emergent intelligent properties of progressively structured pattern recognition nets. **1983**, 1, 375-384	28
1909	Statistical study on reverberation between two mutually excitatory neuron groups. **1983**, 100, 25-55	0
1908	A graph-theoretical analysis of metabolic regulation. **1983**, 100, 293-304	19
1907	Order and chaos in neural systems: An approach to the dynamics of higher brain functions. **1983**, SMC-13, 782-789	81
1906	. **1983**, SMC-13, 1014-1018	0
1905	Neuronlike adaptive elements that can solve difficult learning control problems. **1983**, SMC-13, 834-846	1429
1904	Pre-motor non-spiking interneurons. **1983**, 20, 89-107	25

1903	The logic of mind. **1983**, 1, 125-127	
1902	Neural population modeling and psychology: A review. **1983**, 66, 1-86	66
1901	Cognitive and psychological computation with neural models. **1983**, SMC-13, 799-815	192
1900	Dynamic behavior of nonlinear networks. **1983**, 28, 1204-1206	44
1899	Coding images in the frequency domain: Filter design and energy processing characteristics of the human visual system. **1983**, SMC-13, 1018-1021	8
1898	. **1983**, SMC-13, 953-964	3
1897	ON THE BIOLOGICAL FORMAL COUNTERPARTS OF LOGICAL MACHINES. **1983**, 12, 183-185	5
1896	A Rate Equation System Having a Mnemonic Function. **1983**, 56, 41-45	
1895	La rffence informatique dans l'tude de l'esprit humain: Une mise au point pistmologique.. **1983**, 24, 46-49	
1894	AN OVERVIEW OF MACHINE LEARNING. **1983**, 3-23	32
1893	Development of neuronal selectivity in primary visual cortex of cat. **1984**, 64, 325-434	287
1892	ON THE PROPERTIES OF RANDOMLY CONNECTED McCULLOCH-PITTS NETWORKS: DIFFERENCES BETWEEN INPUT-CONSTANT AND INPUT-VARIANT NETWORKS. **1984**, 15, 91-117	16
1891	Neuroethology: An overnarrow definition can become a source of dogmatism. **1984**, 7, 382-382	1
1890	Model of ecological (cultural) evolutionary neuropsychiatry. **1984**, 58, 143-8	8
1889	From ACE to the G-15. **1984**, 6, 350-371	4
1888	Simulating physics with cellular automata. **1984**, 10, 96-116	277
1887	Self-organization of neural networks. **1984**, 102, 207-211	10
1886	Artificial intelligence: Underlying assumptions and basic objectives. **1984**, 35, 280-290	6

1885 Principle of neuronal organization of defensive reflexes in mollusks. **1984**, 16, 21-28

1884 The Genesis of an Early Stored-Program Computer: CSIRAC. **1984**, 6, 106-115 4

1883 Neurons with graded response have collective computational properties like those of two-state neurons. **1984**, 81, 3088-92 4455

1882 Measurements of powder flow rate in gas-solids pipe flow based on the static electrification of particles. **1984**, 5, 241-254

1881 The scope of neuroethology. **1984**, 7, 367-381 111

1880 Neuroethology: A call for less exclusivity and more theory. **1984**, 7, 381-382

1879 Neuroethology: In defense of open range; don't fence me in. **1984**, 7, 383-383 1

1878 Difficulties and relevance of a neuroethological approach to neurobiology. **1984**, 7, 383-384 1

1877 Neuroethology: Why put it in a straitjacket?. **1984**, 7, 384-385

1876 Can neuroethologists be led?. **1984**, 7, 385-385

1875 Disregarding vertebrates is neither useful nor necessary. **1984**, 7, 385-386

1874 Neuroethology or motorethology?. **1984**, 7, 386-386

1873 Hoyle's new view of neuroethology: Limited and restrictive. **1984**, 7, 386-387 1

1872 Neuroethology according to Hoyle. **1984**, 7, 387-388

1871 Neuroethology and theoretical neurobiology. **1984**, 7, 388-390 5

1870 Can the aims of neuroethology be selective, while avoiding exclusivity?. **1984**, 7, 390-391

1869 Ethology has progressed. **1984**, 7, 391-391 1

1868 Neuroethology, according to Hoyle. **1984**, 7, 391-392

1867	Vertebrate neuroethology: Doomed from the start?. **1984**, 7, 392-393	
1866	The squishy revisited: A call for ethological affirmative action. **1984**, 7, 394-394	1
1865	We are making good progress in the neural analysis of behaviour. **1984**, 7, 395-395	
1864	The ethology of neuroethology. **1984**, 7, 396-397	
1863	Resurrecting Lorenz's hydraulic model: Phlogiston explained by quantum mechanics. **1984**, 7, 397-398	0
1862	Points of congruence between ethology and neuroscience. **1984**, 7, 398-399	
1861	Neuroethology□ow exclusive a club?. **1984**, 7, 399-400	
1860	Keep the scope of neuroethology broad. **1984**, 7, 400-401	1
1859	The proper domain of neuroethology. **1984**, 7, 401-402	1
1858	Ethology and neuroethology: Easy accessibility has been and still is important. **1984**, 7, 402-403	
1857	Is neuroethology wise?. **1984**, 7, 403-403	
1856	Neuroethology: To be, or not to be?. **1984**, 7, 403-412	1
1855	Flow diagrams and hydraulic models. **1984**, 7, 382-383	
1854	They are really complex when you get to know them. **1984**, 7, 393-394	2
1853	Neuroethology: Not losing sight of behaviour. **1984**, 7, 395-396	
1852	Variable threshold logic□ highly flexible logic. **1985**, 6, 390-393	4
1851	Stochastic formulation of neural interaction. **1985**, 4, 201-224	19
1850	Early vision: From computational structure to algorithms and parallel hardware. **1985**, 31, 139-155	40

1849	Dynamics of positive automata networks. **1985**, 41, 19-32	26
1848	Self-organization of neural networks: Noise-induced transition. **1985**, 107, 287-290	6
1847	On the reversible and irreversible representations of motions in Rn to R2. **1985**, 16, 124-132	1
1846	Feature Discovery by Competitive Learning*. **1985**, 9, 75-112	622
1845	Brain without mind: Computer simulation of neural networks with modifiable neuronal interactions. **1985**, 123, 215-273	52
1844	Dynamical Behaviour of Neural Networks. **1985**, 6, 749-754	8
1843	The Scientific Conceptualization of Information: A Survey. **1985**, 7, 117-140	39
1842	LAWS OF FORM AND FINITE AUTOMATA. **1986**, 12, 307-318	1
1841	Associative Learning, Adaptive Pattern Recognition, And Cooperative-Competitive Decision Making By Neural Networks. **1986**,	12
1840	Separating figure from ground with a parallel network. **1986**, 15, 197-216	95
1839	Neuronal networks modelled by petri type nets with controllers. **1986**, 923-932	1
1838	Grandmother networks and computational economy. **1986**, 9, 100-100	
1837	Cortical connections and parallel processing: Structure and function. **1986**, 9, 67-90	274
1836	Value, variable, and coarse coding by posterior parietal neurons. **1986**, 9, 90-91	28
1835	Value encoding of patterns and variable encoding of transformations?. **1986**, 9, 91-92	
1834	Connectionist value units: Some concerns. **1986**, 9, 92-93	
1833	Phase-space representation and coordinate transformation: A general paradigm for neural computation. **1986**, 9, 93-94	2
1832	What's the connection?. **1986**, 9, 94-95	

1831	Abstract solutions versus neurobiologically plausible problems. **1986**, 9, 95-96	1
1830	Cortical architectures and value unit encoding. **1986**, 9, 96-97	
1829	Brain metaphors, theories, and facts. **1986**, 9, 97-98	
1828	Does the brain compute?. **1986**, 9, 98-99	3
1827	Invariant and programmable neuropsychological systems are fibrations. **1986**, 9, 99-100	1
1826	What's in the term connectionist?. **1986**, 9, 100-101	
1825	The gap from sensation to cognition. **1986**, 9, 101-102	2
1824	Two tests for the value unit model: Multicell recordings and pointers. **1986**, 9, 102-103	
1823	Old dogmas and new axioms in brain theory. **1986**, 9, 103-104	4
1822	Computational neuroscience. **1986**, 9, 104-105	
1821	What does the cortex do?. **1986**, 9, 105-105	
1820	Connectionist computing and neural machinery: Examining the test of Ɵiming□**1986**, 9, 106-107	1
1819	Value units make the right connections. **1986**, 9, 107-120	1
1818	Neoron grouping suggested by a multiplicative learning model. **1986**, 114, 334-336	3
1817	Computer models and automata theory in biology and medicine. **1986**, 7, 1513-1577	15
1816	A neural network model based on the analogy with the immune system. **1986**, 122, 33-67	64
1815	Self-stabilization of neuronal networks. I. The compensation algorithm for synaptogenesis. **1986**, 54, 211-22	34
1814	Linear function neurons: structure and training. **1986**, 53, 203-17	47

1813	Long term memory storage capacity of multiconnected neural networks. **1986**, 54, 53-63	97
1812	From timesharing to the sixth generation: the development of human-computer interaction. Part I. **1986**, 24, 1-27	30
1811	Networks of automata and biological organization. **1986**, 121, 255-267	23
1810	Towards a unified model of language description. **1986**, 8, 177-191	1
1809	Computing with neural circuits: a model. **1986**, 233, 625-33	1461
1808	Spin-glass models of a neural network. **1986**, 34, 3435-3445	33
1807	Implementing Neural Network Models on Parallel Computers. **1987**, 30, 413-419	44
1806	Maximum Storage Capacity in Neural Networks. **1987**, 4, 481-485	220
1805	Shifts in Selective Visual Attention: Towards the Underlying Neural Circuitry. **1987**, 115-141	306
1804	Brains, Machines, and Mathematics. **1987**,	134
1803	The analysis of visual motion: from computational theory to neuronal mechanisms. **1987**, 10, 477-533	303
1802	A LOGICAL MODEL OF CO-OPERATIVE PROCESSES IN CEREBRAL DYNAMICS. **1987**, 18, 319-349	6
1801	How brains make chaos in order to make sense of the world. **1987**, 10, 161-173	1692
1800	Selective Neural Networks and Their Implications for Recognition Automata. **1987**, 1, 44-69	11
1799	Learning within bounds and dream sleep. **1987**, 20, L1299-L1303	7
1798	Storing extensively many weighted patterns in a saturated neural network. **1987**, 20, 3989-3999	14
1797	A Neural Network for the Retrieval of Superimposed Connection Patterns. **1987**, 3, 1243-1249	58
1796	Non-linear neural networks with external noise. **1987**, 20, 6553-6560	4

1795	Dynamics and statistical mechanics of the Hopfield model. **1987**, 20, 2909-2934	47
1794	Methodologies for studying human knowledge. **1987**, 10, 467-477	131
1793	Many levels: More than one is algorithmic. **1987**, 10, 478-479	
1792	Functional principles and situated problem solving. **1987**, 10, 479-480	1
1791	The algorithm/implementation distinction. **1987**, 10, 480-480	
1790	The scientific induction problem: A case for case studies. **1987**, 10, 480-481	
1789	The evolutionary aspect of cognitive functions. **1987**, 10, 481-483	1
1788	The study of cognition and instructional design: Mutual nurturance. **1987**, 10, 483-484	
1787	Ambiguities in the algorithmic level **1987**, 10, 484-485	
1786	A flawed analogy?. **1987**, 10, 485-486	
1785	Generality and applications. **1987**, 10, 486-487	
1784	Connectionism and motivation are compatible. **1987**, 10, 487-487	
1783	Nonverbal knowledge as algorithms. **1987**, 10, 487-488	
1782	Ways and means. **1987**, 10, 488-489	
1781	Is there more than one type of mental algorithm?. **1987**, 10, 489-490	
1780	Weak versus strong claims about the algorithmic level. **1987**, 10, 490-490	
1779	Levels of research. **1987**, 10, 490-492	
1778	Connectionism and implementation. **1987**, 10, 492-493	1

1777 Interactive instructional systems and models of human problem solving. **1987**, 10, 493-494

1776 Applying Marr to memory. **1987**, 10, 494-495 1

1775 What is the algorithmic level?. **1987**, 10, 495-496

1774 Connectionist models are also algorithmic. **1987**, 10, 496-497 1

1773 Learning is critical, not implementation versus algorithm. **1987**, 10, 497-497

1772 Underestimating the importance of the implementational level. **1987**, 10, 497-498

1771 Implementations, algorithms, and more. **1987**, 10, 498-505

1770 Chaotic dynamics in brain activity. **1987**, 10, 173-174 2

1769 Spatial analysis of brain function:Not the first. **1987**, 10, 175-175

1768 Can brains make psychological sense of neurological data?. **1987**, 10, 175-176 1

1767 On the differences between cognitive and noncognitive systems. **1987**, 10, 177-178 1

1766 The virtues of chaos. **1987**, 10, 178-179 5

1765 Stable self-organization of sensory recognition codes: Is chaos necessary?. **1987**, 10, 179-180 1

1764 Is chaos the only alternative to rigidity?. **1987**, 10, 180-180

1763 Chaos in brains: Fad or insight?. **1987**, 10, 180-181 2

1762 Connectionist models as neural abstractions. **1987**, 10, 181-182 2

1761 Chaos can be overplayed. **1987**, 10, 182-183 2

1760 Cognition as self□rganizing process. **1987**, 10, 183-183 2

1759	Physiology: Is there any other game in town?. **1987**, 10, 183-195	2
1758	Chaos, symbols, and connectionism. **1987**, 10, 174-175	
1757	When the chaos is too chaotic and the limit cycles too limited, the mind boggles and the brain (model) flounders. **1987**, 10, 176-177	1
1756	The properties of models of simple neural networks. **1987**, 429-484	4
1755	Nonlinear neural networks: Efficient storage and retrieval of information. **1987**, 547-568	4
1754	A McCulloch and Pitts Network as the Actual Control System Between Sensory Inputs and Motor Outputs. **1987**, 20, 339-342	
1753	Chaos in Biological Systems. **1987**,	31
1752	Logic operations are properties of computer-simulated interactions between excitable dendritic spines. **1987**, 21, 151-65	198
1751	Modification of the threshold condition for a contentaddressable memory based on the Hopfield model. **1987**, 26, 34-6	10
1750	Optical associative memory model based on neural networks having variable interconnection weights. **1987**, 26, 924-8	13
1749	Massive parallelism in artificial intelligence. **1987**, 26, 1829-44	1
1748	Holographic associative memory with nonlinearities in the correlation domain. **1987**, 26, 1900-10	78
1747	Adaptive, associative, and self-organizing functions in neural computing. **1987**, 26, 4910-8	95
1746	Adaptive bidirectional associative memories. **1987**, 26, 4947-60	733
1745	Designs and devices for optical bidirectional associative memories. **1987**, 26, 5055-60	23
1744	The Wiener Memorandum on the Mechanical Solution of Partial Differential Equations. **1987**, 9, 183-197	1
1743	Array signal processing with interconnected Neuron-like elements.	20
1742	Effet photorfractif dans les cristaux d'oxyde de bismuth et de silicium (Bi12SiO20) ou de germanium (Bi12GeO20). **1987**, 22, 1253-1267	8

1741	[Stomach ulcer as a problem of energy balance: design of a cellular automatic simulation of disorders of blood flow distribution in the stomach wall]. **1987**, 370, 91-110	2
1740	Electrophysiological manifestations of the monoaminergic systems' effects on the cerebral cortex. **1987**, 17, 152-60	
1739	Statistical mechanics of neural networks near saturation. **1987**, 173, 30-67	637
1738	Artificial intelligence and large scale computation: A physics perspective. **1987**, 156, 227-310	14
1737	Information capacity of outer-product neural networks. **1987**, 124, 53-58	9
1736	Switching mechanism of a cyclic enzyme system: role as a "chemical diode". **1987**, 21, 1-11	38
1735	Rapprochement of artificial intelligence and dynamics. **1987**, 30, 280-290	16
1734	An introduction to computing with neural nets. **1987**, 4, 4-22	4169
1733	Electronic Implementation of Associative Memory Based on Neural Network Models. **1987**, 17, 325-331	22
1732	. **1988**, 4, 3-7	12
1731	Bidirectional associative memories. **1988**, 18, 49-60	1234
1730	Iterative behaviour, fixed point of a class of monotone operators. Application to non-symmetric threshold function. **1988**, 70, 85-101	4
1729	Open forum. **1988**, 2, 63-78	
1728	An introduction to neural computing. **1988**, 1, 3-16	640
1727	Neural network models. **1988**, 8, 71-83	14
1726	Neural networks: A biased overview. **1988**, 51, 743-775	22
1725	An immune system model in discrete time based on the analogy with the central nervous system. **1988**, 52, 489-495	8
1724	Nonlinear neural networks. I. General theory. **1988**, 50, 231-257	31

1723	On a simple stochastic neuron □Like unit. **1988**, 60, 153-160	4
1722	Pattern recognition and associative memory as dynamical processes in a synergetic system. I. Translational invariance, selective attention, and decomposition of scenes. **1988**, 60, 17-22	29
1721	Maximum likelihood analysis of spike trains of interacting nerve cells. **1988**, 59, 189-200	147
1720	Biochemical switching device realizing McCulloch-Pitts type equation. **1988**, 58, 295-9	28
1719	Brains, machines and mathematics. **1988**, 11, 191-195	
1718	Cooperative phenomena and artificial intelligence. **1988**, 39, 207-231	
1717	Neurocomputing□eurons as microcomputers. **1988**, 4, 39-51	1
1716	Critical phenomena in model neural networks. **1988**, 129, 157-160	84
1715	On the equivalence and properties of noisy neural and probabilistic RAM nets. **1988**, 131, 326-332	27
1714	Bifurcation structure of a discrete neuronal equation. **1988**, 21, 21-34	4
1713	Neuron-like transient phenomena in silicon p-i-n structures. **1988**, 31, 851-862	7
1712	Evaluating an adaptive network model of human learning. **1988**, 27, 166-195	236
1711	On the capabilities of multilayer perceptrons. **1988**, 4, 193-215	192
1710	Nonlinear neural networks: Principles, mechanisms, and architectures. **1988**, 1, 17-61	1051
1709	Memory capacity in neural network models: Rigorous lower bounds. **1988**, 1, 223-238	81
1708	Convergence results in an associative memory model. **1988**, 1, 239-250	64
1707	Modelling of neural systems in continuous time. **1988**, 10, 503-513	2
1706	RF-cell: a model for populations of randomly interconnected neurons. **1988**, 50, 43-66	2

1705 The maximum likelihood approach to the identification of neuronal firing systems. **1988**, 16, 3-16 17

1704 Glauber dynamics of the Little-Hopfield model. **1988**, 72, 523-533 34

1703 Optimal size of neural networks with multiplicative learning. **1988**, 64, 59-66

1702 Comparison Between Kanerva's SDM and Hopfield-type Neural Networks. **1988**, 12, 299-329 23

1701 . **1988**, 4

1700 . **1988**, 9

1699 On language and connectionism: analysis of a parallel distributed processing model of language acquisition. **1988**, 28, 73-193 1085

1698 . **1988**, 76, 680-692 32

1697 . **1988**, 76, 1130-1142 2

1696 Reviews. **1988**, 10, 221-233 1

1695 Neural computing: Hype or reality?. **1988**, 6, 114-117 0

1694 Statistical Mechanics of Neural Networks. **1988**, 41, 70-80 51

1693 Statistical Mechanics of Neural Computation. **1988**, 2, 54-62 2

1692 The space of interactions in neural network models. **1988**, 21, 257-270 680

1691 Pattern Analysis with Adaptive Logic Networks.

1690 . **1988**, 1

1689 . 7

1688 . **1988**, 36, 1162-1168 169

1687	. **1988**,	0
1686	Correspondence between neural threshold networks and Kauffman Boolean cellular automata. **1988**, 21, L615-L619	68
1685	.	0
1684	.	1
1683	A CONNECTIONIST APPROACH TO KNOWLEDGE ACQUISITION. **1988**, 19, 387-410	4
1682	The mixture of incomplete reasoing with inexact reasoning and its application to a real expert system.	
1681	A Logic Connectionist Approach To Self-organized Associative Memory.	0
1680	.	
1679	Connectionist expert systems. **1988**, 31, 152-169	420
1678	Partially connected models of neural networks. **1988**, 21, 3275-3284	47
1677	Content-addressability and learning in neural networks. **1988**, 21, 245-255	88
1676	Networks and Teleology. **1988**, 14, 159-186	
1675	Neural Networks: A New Approach To Pattern Recognition. **1988**,	0
1674	Neural networks counting chimes. **1988**, 85, 2141-5	47
1673	Neural nets. **1988**, 21, 365-427	60
1672	Design of the modern inquiring system. **1988**, 5, 357-361	5
1671	Convergence, cycling or strange motion in the adaptive synthesis of neurons. **1988**, 214-225	
1670	Chapter 20 The Hierarchy Debate: Tema Con Variazioni. **1988**, 50, 489-561	3

1669 Scientific computation on SIMD and MIMD machines. **1988**, 326, 481-498 3

1668 Vistas from tensor network theory: a horizon from reductionalistic neurophilosophy to the geometry of multi-unit recordings. **1988**, 44-73 10

1667 Topology, structure, and distance in quasirandom neural networks. **1988**, 104-118

1666 Access stability of cyclic modes in quasirandom networks of threshold neurons obeying a deterministic synchronous dynamics. **1988**, 316-344 2

1665 INTRODUCTION TO NEURAL NETWORKS. **1989**, 1-102 2

1664 Neural Computers. **1989**, 15

1663 . 1

1662 . **1989**, 0

1661 Statistical mechanics of stereoscopic vision. **1989**, 40, 3983-3997 8

1660 Pruning versus clipping in neural networks. **1989**, 39, 6600-6603 10

1659 . 0

1658 . **1989**, 11

1657 Theory of synapse distribution on dendrites in neural networks. **1989**, 40, 4045-4049 3

1656 . **1989**, 49

1655 . 5

1654 Synergetics: an overview. **1989**, 52, 515-553 44

1653 On the Relationship Between Connectionism and Cognitive Science. **1989**, 10, 162-187 2

1652 . 1

1651	. **1989**,	13
1650	Preface to the Special Issue on Parallel Distributed Processing and Neural Networks. **1989**, 13, 24	5
1649	Synergetischer Computer Ein Blick-biologischer Zugang. **1989**, 45, 168-171	1
1648	A lattice filter type of neuron model for faster nonlinear processing. **1989**,	0
1647	Random dilution in a neural network for biased patterns. **1989**, 22, 2103-2118	21
1646	Exponential storage and retrieval in hierarchical neural networks. **1989**, 22, 4707-4728	5
1645	Training with noise and the storage of correlated patterns in a neural network model. **1989**, 22, 2019-2030	38
1644	. **1989**, 5, 641-657	79
1643	Automatic learning strategies and their application to electrophoresis analysis. **1989**, 13, 383-91	1
1642	Spin glasses and neural networks. **1989**, 10, 332-375	
1641	Glauber dynamics of the asymmetric SK-model. **1989**, 74, 527-538	29
1640	Hopfield network with directed bonds. **1989**, 74, 539-545	13
1639	Neural networks with low levels of activity: Ising vs. McCulloch-Pitts neurons. **1989**, 75, 133-136	32
1638	Connexionnisme, calcul, reconnaissance des formes et intelligence artificielle. **1989**, 44, 331-341	
1637	Control of the immune response by a threshold automata model on a lattice. **1989**, 162, 1-19	16
1636	Parallel algorithms/architectures for neural networks. **1989**, 1, 221-251	17
1635	. **1989**, 35, 59-68	36
1634	. **1989**, 19, 1133-1141	5

1633	. **1989**, 19, 1188-1193	3
1632	. **1989**, 36, 1485-1489	2
1631	. **1989**, 36, 762-766	22
1630	Some aspects of the communicational and computational organization of the brain. **1989**, 135, 203-16	18
1629	A connectionist processing metaphor for diagnostic reasoning. **1989**, 4, 155-180	7
1628	Neural computing on a system of parallel organized transputers: Software implementation and hardware configuration. **1989**, 56, 155-163	
1627	Neural networks as content addressable memories and learning machines. **1989**, 56, 43-50	
1626	Neural networks as models of associative memories. **1989**, 55, 77-84	
1625	Schemas and neural networks for sixth generation computing invited survey. **1989**, 6, 185-216	18
1624	Entropy driven Artificial Neuronal Networks and sensorial representation: A proposal. **1989**, 6, 264-290	6
1623	A unified systolic architecture for artificial neural networks. **1989**, 6, 358-387	67
1622	On the approximate realization of continuous mappings by neural networks. **1989**, 2, 183-192	2776
1621	Minimum class entropy: A maximum information approach to layered networks. **1989**, 2, 133-141	66
1620	A learning mechanism for invariant pattern recognition in neural networks. **1989**, 2, 495-506	11
1619	An analysis of noisy RAM and neural nets. **1989**, 34, 90-114	23
1618	A network of multistate units capable of associative memory and pattern classification. **1989**, 34, 418-426	3
1617	Two classes linear discrimination A min-max approach. **1989**, 10, 281-287	
1616	New approaches for heuristic search: A bilateral linkage with artificial intelligence. **1989**, 39, 119-130	178

1615	Towards an artificial brain. **1989**, 23, 175-215; discussion 216-8	38
1614	Quantum molecular computer model of the neuron and a pathway to the union of the sciences. **1989**, 22, 135-54	24
1613	Biochemical switching device: how to turn on (off) the switch. **1989**, 22, 155-62	7
1612	The brain-machine disanalogy. **1989**, 22, 197-213	64
1611	Neural nets: From Hartley and Hebb to Hinton. **1989**, 33, 348-357	14
1610	Information processing in three-state neural networks. **1989**, 55, 859-901	37
1609	Connectionism: past, present, and future. **1989**, 3, 3-20	16
1608	Fast connectionist learning: words and case. **1989**, 3, 33-47	1
1607	On the ability of neural networks to perform generalization by induction. **1989**, 61, 125-8	27
1606	Compensation type algorithms for neural nets: stability and convergence. **1989**, 27, 327-40	8
1605	The antiphon: a device for reliable memory from unreliable components. I. **1989**, 423, 201-218	6
1604	. **1989**, 24, 562-569	27
1603	The von Neumann-Ortvay Connection. **1989**, 11, 183-188	2
1602	The Computer and the Brain Revisited. **1989**, 11, 197-201	
1601	Neuronal assemblies. **1989**, 36, 4-14	273
1600	Adaptive neural network in a hybrid optical/electronic architecture using lateral inhibition. **1989**, 28, 3852-9	8
1599	. **1989**, 77, 1573-1583	53
1598	Some agenda items for a neurobiology of cognition: an introduction. **1989**, 33, 1-23	5

1597	Neuronal models of cognitive functions. **1989**, 33, 63-109	211
1596	. **1989**, 27, 29-36	6
1595	. **1989**, 9, 46-55	24
1594	. **1989**, 9, 56-63	25
1593	The Cognitive Turn. **1989**,	10
1592	Machine Tongues XII: Neural Networks. **1989**, 13, 28	5
1591	.	0
1590	.	3
1589	.	1
1588	Real-Time Fourier Transformed Holographic Associative Memory With Photorefractive Material. **1989**,	
1587	[Schizophrenia and the theory of neural networks]. **1989**, 57, 70-3	0
1586	Connectionist models of conditioning: A tutorial. **1989**, 52, 427-40	45
1585	New learning & control algorithms for neural networks. **1989**, 105-116	0
1584	Protein secondary structure prediction with a neural network. **1989**, 86, 152-6	380
1583	Noise in neural networks: thresholds, hysteresis, and neuromodulation of signal-to-noise. **1989**, 86, 1712-6	30
1582	Intermittent chaos, self-organization, and learning from synchronous synaptic activity in model neuron networks. **1989**, 86, 2991-5	17
1581	Bibliography. **1989**, 128, 528-573	
1580	Quantitative Modeling of Synaptic Plasticity. **1989**, 23, 1-30	1

1579	General Problems of Cybernetics: An Educational Viewpoint. **1989**, 18, 22-31	
1578	Computer Experiment on Characteristic Modes of Excitation in a Random Neural Network on the McCulloch-Pitts Model. **1989**, 58, 2741-2757	3
1577	A simple model for the immune network. **1990**, 87, 429-33	67
1576	Learning in neural network memories. **1990**, 1, 105-122	25
1575	Cognitive Operations, and Non-Conscious Processing in Dreams and Waking Verbal Reports. **1990**, 10, 65-84	3
1574	Psychology and Mathematics. **1990**, 223-248	2
1573	What is caught in neural nets?. **1990**, 19, 561-8	
1572	An optimization technique with neural networks and its application to a ferry routing. **1990**, 800-808	1
1571	What connectionist models learn: Learning and representation in connectionist networks. **1990**, 13, 471-489	144
1570	Relatively local neurons in a distributed representation: A neurophysiological perspective. **1990**, 13, 489-491	1
1569	What connectionists learn: Comparisons of model and neural nets. **1990**, 13, 491-492	
1568	Representational systems and symbolic systems. **1990**, 13, 492-493	
1567	Connectionism and classical computation. **1990**, 13, 493-494	2
1566	Are connectionist models just statistical pattern classifiers?. **1990**, 13, 494-495	
1565	Expose hidden assumptions in network theory. **1990**, 13, 495-496	25
1564	But what is the substance of connectionist representation?. **1990**, 13, 496-497	
1563	A non-empiricist perspective on learning in layered networks. **1990**, 13, 497-498	33
1562	How connectionist models learn: The course of learning in connectionist networks. **1990**, 13, 498-499	1

1561 What can psychologists learn from hidden-unit nets?. **1990**, 13, 499-500 1

1560 Approaches to learning and representation. **1990**, 13, 500-501

1559 Toward a unification of conditioning and cognition in animal learning. **1990**, 13, 501-502

1558 Keeping representations at bay. **1990**, 13, 502-503 1

1557 Learning from learned networks. **1990**, 13, 503-504 2

1556 Realistic neural nets need to learn iconic representations. **1990**, 13, 505-505

1555 There is more to learning then meeth the eye (or ear). **1990**, 13, 506-507 2

1554 Problems of extension, representation, and computational irreducibility. **1990**, 13, 507-508 3

1553 Connectionist models: Too little too soon?. **1990**, 13, 508-509

1552 Advances in neural network theory. **1990**, 13, 509-509

1551 Connectionist models learn what?. **1990**, 13, 509-510

1550 Connectionist learning and the challenge of real environments. **1990**, 13, 510-511

1549 Learning and representation: Tensions at the interface. **1990**, 13, 511-518 1

1548 On learnability, empirical foundations, and naturalness. **1990**, 13, 501-501 1

1547 The analysis of the learning needs to be deeper. **1990**, 13, 505-506 2

1546 CMOS layout design of the hysteresis McCullochPitts neuron. **1990**, 26, 2093 8

1545 Molecular Computing. **1990**, 31, 235-324 28

1544 Synchronization in Neural Assemblies. **1990**, T33, 54-64 12

1543	Supervised learning in N-tuple neural networks. **1990**, 33, 21-40	4
1542	. **1990**, 10, 6-17	126
1541	Early neural network development history: the age of Camelot. **1990**, 9, 15-8	10
1540	Activity in cortical-like neural systems: short-range effects and attention phenomena. **1990**, 52, 397-429	27
1539	Discussion: McCulloch-Pitts and related neural nets from 1943 to 1989. **1990**, 52, 73-97	5
1538	The Stone-Weierstrass theorem and its application to neural networks. **1990**, 1, 290-5	216
1537	.	
1536	Shaping attraction basins in neural networks. **1990**, 3, 613-623	10
1535	New directions for medical artificial intelligence. **1990**, 20, 313-319	3
1534	Neural network technology and its application in chemical research. **1990**, 3, 119-128	10
1533	On the interconnection constants of Hopfield nets. **1990**, 2, 342-358	
1532	Connectionism and artificial intelligence as cognitive models. **1990**, 4, 115-136	
1531	Neural networks and heuristic search. **1990**, 1, 75-95	
1530	Stochastic analyses of the dynamics of generalized Little-Hopfield-Hemmen type neural networks. **1990**, 59, 1051-1075	11
1529	Effect of damage in neural networks. **1990**, 58, 1257-1266	6
1528	Neural networks based on peano curves and hairy neurons. **1990**, 7, 403-430	5
1527	Mathematical aspects of outer-product asynchronous content-addressable memories. **1990**, 62, 337-348	6
1526	McCulloch-Pitts and related neural nets from 1943 to 1989. **1990**, 52, 73-97	8

1525	Model nerve net can produce rectilinear, non-diffuse propagation as seen in the skin plexus of sea urchins. **1990**, 143, 15-40	6
1524	Future impacts of artificial neural systems on industry. **1990**, 29, 9-14	6
1523	Network study of integrated biochemical switching system. I: Connection of basic elements. **1990**, 24, 39-52	4
1522	Introduction to computation and learning in artificial neural networks. **1990**, 47, 1-28	79
1521	A Rosetta stone for connectionism. **1990**, 42, 153-187	138
1520	Concerning the emergence of tag-mediated lookahead in classifier systems. **1990**, 42, 188-201	31
1519	Cellular automata and discrete neural networks. **1990**, 45, 431-440	11
1518	Computation and control with neural networks. **1990**, 293, 507-516	1
1517	Knowledge engineering versus software engineering. **1990**, 5, 79-91	7
1516	Intelligent Control of Machines and Processes. **1990**, 19, 205-209	6
1515	Neuronal dynamics based on discontinuous circle maps. **1990**, 150, 187-195	28
1514	Chaotic neural networks. **1990**, 144, 333-340	897
1513	Associative memory neural networks with concatenated vectors and nonzero diagonal terms. **1990**, 3, 311-318	3
1512	A parallel architecture of a neural machine to the knowledge acquisition, the image processing, and the approximated solution of some equations. **1990**, 14, 305-310	
1511	Neural network applications in synthetic organic chemistry: I. A hybrid system which performs retrosynthetic analysis. **1990**, 3, 143-161	2
1510	From statistical mechanics to neural networks and back. **1990**, 163, 373-385	6
1509	A neural network approach to the classification problem. **1990**, 1, 417-424	15
1508	The reconstruction of individual spike trains from extracellular multineuron recordings using a neural network emulation program. **1990**, 35, 203-13	19

1507	Introduction On the statistical-mechanical formulation of neural networks. **1990**, 1-3	
1506	Neuronal networks in the hippocampus involved in memory. **1990**, 81-95	2
1505	Algorithms for Finding Patterns in Strings. **1990**, 255-300	86
1504	Synergetic computers An alternative to neurocomputers. **1990**, 331-340	
1503	A VIEW OF REMOTE SENSING IN NEAR FUTURE. **1990**, 1990, 21-28	
1502	Random Boolean networks for autoassociative memory: Optimization and sequential learning. **1990**, 467-473	
1501	Feed-forward networks composed by neurons with activation functions of different parity. **1990**, 23, 5045-5060	
1500	Threshold-linear formal neurons in auto-associative nets. **1990**, 23, 2631-2650	36
1499	Simulated Evolution: A 30-Year Perspective.	1
1498	Large suppression of spurious states in neural networks of nonlinear analog neurons. **1990**, 42, 7459-7466	24
1497	Neural network with state-dependent synapses. **1990**, 41, 7013-7019	5
1496	Hairy neuron convergence theorems without the precision of timing. **1990**,	0
1495	.	15
1494	On the computational power of neural networks and neural automata. **1990**,	
1493	Learning of stable states in stochastic asymmetric networks. **1990**, 1, 233-8	4
1492	.	
1491	.	2
1490	Increasing the Power of Connectionist Networks (CN) by Improving Structures, Processes, Learning. **1990**, 2, 179-193	4

1489 .

1488 Neuronale Netze als Signal- und Musterklassifikatoren / Neural networks as signal and pattern classifiers. **1990**, 57, 10

1487 SLONN: A Simulation Language for modeling of Neural Networks. **1990**, 55, 69-83 16

1486 Connectionism and Universals of Second Language Acquisition. **1990**, 12, 179-199 77

1485 Interactions of neural networks: models for distraction and concentration. **1990**, 87, 7110-4 12

1484 Synchronous neural networks of nonlinear threshold elements with hysteresis. **1990**, 87, 988-92 34

1483 Long-Term Behavior of Neural Networks. **1990**, 205-214

1482 Connectionistic Problem Solving. **1990**, 10

1481 Parallel algorithms for finding a near-maximum independent set of a circle graph. **1990**, 1, 263-7 42

1480 The design of a neural network with a biologically motivated architecture. **1990**, 1, 251-62 7

1479 Modulation of function and gated learning in a network memory. **1990**, 87, 9241-5 11

1478 Model neurons: From Hodgkin-Huxley to hopfield. **1990**, 5-18 60

1477 .

1476 . 1

1475 .

1474 Norbert Wiener 1894–1964. **1990**, 58

1473 Coordination and control structures and processes: possibilities for connectionist networks (CN). **1990**, 2, 277-302 5

1472 GMM-PAM: a genetic multilevel multicategory perceptron associative memory. **1990**,

1471	Cultural Psychology a New Relationship with Knowledge. **1990**, 3, 327-348	3
1470	Oscillations and chaos in neural networks: an exactly solvable model. **1990**, 87, 9467-71	66
1469	Chapter 13 Neural Networks in Analytical Chemistry. **1990**, 151-160	
1468	.	
1467	The recticular formation as a multi-valued logic neural network. **1990**,	0
1466	.	
1465	.	8
1464	.	3
1463	.	
1462	.	
1461	.	2
1460	Reflections on Computer Science. **1990**, 4, 1-12	
1459	Introduction. **1990**, 1-13	
1458	. **1990**, 9, 1265-1271	14
1457	. **1990**, 78, 1498-1530	67
1456	. **1990**, 78, 1614-1619	59
1455	Graded-response neurons and information encodings in autoassociative memories. **1990**, 42, 2418-2430	113
1454	A network of oscillators. **1990**, 23, 3835-3859	85

1453	PARALLEL SELF-ORGANIZING FEATURE MAPS FOR UNSUPERVISED PATTERN RECOGNITION. **1990**, 16, 357-372	104
1452	Subtracting incoherent optical neuron model: analysis, experiment, and applications. **1990**, 29, 2171-86	23
1451	Neural network recognition and classification of aerosol particle distributions measured with a two-spot laser velocimeter. **1990**, 29, 2929-38	7
1450	. **1990**, 26, 824-830	108
1449	. **1990**, 10, 14-22	27
1448	The induction of dynamical recognizers. **1991**, 7, 227-252	224
1447	An undergraduate course in artificial neural networks. **1991**, 16, 153-156	1
1446	Non-synaptic interactions at presynaptic level. **1991**, 37, 145-63	112
1445	Lyapunov Functionals for Automata Networks Defined by Cyclically Monotone Functions. **1991**, 4, 200-206	2
1444	.	
1443	.	0
1442	.	41
1441	. **1991**,	
1440	. **1991**,	
1439	. **1991**,	5
1438	NEURAL COMPUTING IN PERSPECTIVE. **1991**, 5, 171-185	
1437	.	1
1436	. **1991**,	1

1435	Medical Knowledge Modeling In A Symbolic-connectionist Perspective.	1
1434	.	5
1433	. **1991**,	0
1432	. **1991**,	3
1431	What determines the capacity of autoassociative memories in the brain?. **1991**, 2, 371-397	197
1430	A stochastic model of an artificial neuron. **1991**, 23, 809-822	1
1429	Knowledge-Based Modeling of Material Behavior with Neural Networks. **1991**, 117, 132-153	407
1428	The Induction of Dynamical Recognizers. **1991**, 7, 227-252	50
1427	. **1991**, 79, 444-460	11
1426	Neural network modelling. **1991**, 36, 1259-317	37
1425	Neural Networks and Their Application to Power Engineering. **1991**, 359-461	7
1424	Programmable impulse neural circuits. **1991**, 2, 101-9	49
1423	.	1
1422	.	277
1421	Models of neural networks. **1991**, 150-207	
1420	Artificial Neural Nets in MOS Silicon. **1991**, 243-270	1
1419	THE HEBB RULE IMPLEMENTATION IN A UNIVERSAL NEURAL NET. **1991**, 1457-1460	
1418	Mental, neuropsychic, and brain patterns of defense. Neuropsychic defense continua from psychopathology to the particularly human parallel networks that are problematic for artificial intelligence. **1991**, 19, 99-123	4

1417 A stochastic model of an artificial neuron. **1991**, 23, 809-822

1416 Literaturverzeichnis. **1991**, 645-662

1415 Neural Network Techniques in Manufacturing and Automation Systems. **1991**, 49, 37-98

1414 The brain/mind complex. An epistemological approach. **1991**, 49, 243-50 2

1413 Neurocomputing Formalisms for Computational Learning and Machine Intelligence. **1991**, 33, 173-245 3

1412 Different types of theories in neurocomputation. **1991**,

1411 Two neural network programming assignments using arrays. **1991**, 23, 43-47 2

1410 Neural networks as a tool for utilizing laboratory information: comparison with linear discriminant analysis and with classification and regression trees. **1991**, 88, 11426-30 59

1409 Learning algorithms for oscillatory networks with gap junctions and membrane currents. **1991**, 2, 17-41 17

1408 Chemical implementation of neural networks and Turing machines. **1991**, 88, 10983-7 184

1407 Philosophy, Semantics and Cybernetics. **1991**, 20, 28-42 6

1406 . 7

1405 Neural networks□their applications and perspectives in intelligent machining. **1991**, 17, 101-119 32

1404 Evolutionary learning in reaction-diffusion neurons. **1991**, 41, 233-263 1

1403 Neural-network-based adaptive control systems for AUVs. **1991**, 4, 309-318 15

1402 A neural network-based learning system for speech processing. **1991**, 2, 59-71 2

1401 Programmed interactions in higher-order neural networks: Maximal capacity. **1991**, 7, 316-337 20

1400 NN-driven fuzzy reasoning. **1991**, 5, 191-212 388

1399	Recognition of chatter with neural networks. **1991**, 31, 539-552	33
1398	State evaluation functions and Lyapunov functions for neural networks. **1991**, 4, 505-510	15
1397	Models of continuous neural networks. **1991**, 156, 183-186	4
1396	Global behavior of homogeneous random neural systems. **1991**, 15, 534-541	72
1395	Memory, learning and neuromediators. **1991**, 25, 219-29	4
1394	Neural networks and applications tutorial. **1991**, 207, 215-259	9
1393	Neural networks: Promise for the future?. **1991**, 6, 351-354	2
1392	Dynamically capacity allocating neural networks for continuous learning using sequential processing of data. **1991**, 12, 121-145	6
1391	The world of attractor neural networks□Modeling brain function?. **1991**, 35, 532-544	
1390	Neural networks: A new method for solving chemical problems or just a passing phase?. **1991**, 248, 1-30	500
1389	Int□gration □rchitectures ˆ base de r□seaux de neurones formels : un df□i pour les technologies submicroniques. **1991**, 46, 142-155	
1388	Neural optimization network for minimum-via layer assignment. **1991**, 3, 15-27	5
1387	A parallel algorithm for solving the □hip□games. **1991**, 3, 97-106	9
1386	Neural network hardware with learning function using pulse-density modulation. **1991**, 74, 66-75	1
1385	Acquisition of internal representation by multilayered perceptrons. **1991**, 74, 112-118	4
1384	. **1991**, 21, 359-367	8
1383	. **1991**, 40, 338-346	26
1382	. **1991**, 38, 326-333	92

1381 . **1991**, 38, 196-201 39

1380 Application of neural network computing to the solution for the ground-state eigenenergy of two-dimensional harmonic oscillators. **1991**, 177, 189-194 16

1379 A neural network methodology for heat transfer data analysis. **1991**, 34, 2063-2070 91

1378 Discrete time leaky integrator network with synaptic noise. **1991**, 4, 789-801 25

1377 Training an artificial neural network the pure pursuit maneuver. **1991**, 18, 343-353

1376 Introduction to connectionist computing. **1991**, 23, 530-538 2

1375 The immune system as a neural network: a multi-epitope approach. **1991**, 150, 225-37 21

1374 Signal processing using cellular neural networks. **1991**, 3, 25-51 20

1373 Inhibition in the nervous system: models of its roles in choice and context determination. **1991**, 16, 381-95 2

1372 An application of neural networks in chemistry. Prediction of13C NMR chemical shifts. **1991**, 6, 63-76 42

1371 An artificial hysteresis binary neuron: a model suppressing the oscillatory behaviors of neural dynamics. **1991**, 64, 353-356 66

1370 Local adaptations of two naturally occurring neuronal conductances, gK + (A) and gK + (Ca), allow for associative conditioning and contiguity judgements in artificial neural networks. **1991**, 66, 79-86 2

1369 Variable threshold as a model for selective attention, (de)sensitization, and anesthesia in associative neural networks. **1991**, 64, 231-41 11

1368 Langevin machine: a neural network based on stochastically justifiable sigmoidal function. **1991**, 65, 331-8 6

1367 Artificial Neural Networks and Genetic Algorithms. **1991**, 623-702

1366 Efficient simulation of finite automata by neural nets. **1991**, 38, 495-514 66

1365 The object-oriented paradigm and neurocomputing. **1991**,

1364 Nonlinear dynamics of physiological function and control. **1991**, 1, 247-250 16

1363	.	7
1362	Stochastic dynamics of time-summating binary neural networks. **1991**, 44, 4005-4016	13
1361	.	
1360	Neural networks: A local learning prescription for arbitrary correlated patterns. **1991**, 66, 1793-1796	10
1359	Relative entropy and learning rules. **1991**, 43, 1061-1070	14
1358	Continuous System Modeling. **1991**,	230
1357	.	
1356	. **1991**,	1
1355	.	0
1354	Time-interval sequences in bistable systems and the noise-induced transmission of information by sensory neurons. **1991**, 67, 656-659	401
1353	Neuronale Netze. **1991**,	28
1352	Parallel Algorithms and Architectures for DSP Applications. **1991**,	3
1351	Cognitive neuroscience analyses of memory: a historical perspective. **1991**, 3, 95-116	63
1350	The Missing Psychological Links of Artificial Intelligence: Predication and Opposition. **1991**, 4, 241-249	5
1349	.	1
1348	. **1991**,	1
1347	. **1991**,	19
1346	Structure Level Adaptation for Artificial Neural Networks. **1991**,	27

1345	Connectionist Approaches to Language Learning. **1991**,	3
1344	Classification of remotely-sensed image data using artificial neural networks. **1991**, 12, 2433-2438	22
1343	Quantum neural networks. **1991**, 2, 207-230	3
1342	A cell assembly model of language. **1991**, 2, 455-468	104
1341	The Illusion that Man Constructs Reality A Retrograde Trend in the Cybernetical Movement. **1992**, 21, 11-24	5
1340	.	0
1339	From neural networks to cell signalling: Chemical communications among cell populations. **1992**,	
1338	.	1
1337	.	4
1336	On the computational power of neural nets. **1992**,	54
1335	A Simple Network Showing Burst Synchronization without Frequency Locking. **1992**, 4, 211-223	26
1334	A connectionist approach to predict antenatal outcome. **1992**,	2
1333	Tissue models, with programming problems from God's notebook.. **1992**, 12, 7-13	
1332	A NEURAL NETWORK BASED APPROACH TO MECHANICAL DESIGN OPTIMIZATION. **1992**, 20, 187-203	25
1331	Neural Network Parallel Computing. **1992**,	94
1330	Sensors and Sensory Systems for an Electronic Nose. **1992**,	58
1329	Methods OI geometry and probabilistic combinatorics in threshold logic. **1992**, 2,	4
1328	A general purpose simulation environment for neural models. **1992**, 59, 286-299	1

1327	Neural network applications to the color scanner and printer calibrations. **1992**, 1, 125	64
1326	A neural network parallel algorithm for clique vertex-partition problems. **1992**, 72, 357-372	6
1325	A Training Strategy and Functionality Analysis of Digital Multi-Layer Neural Networks. **1992**, 2,	2
1324	Structure-unknown non-linear dynamic systems: identification through neural networks. **1992**, 1, 45-56	56
1323	Computability of Logical Neural Networks. **1992**, 2,	3
1322	.	1
1321	Storage capacity of "quantum" neural networks. **1992**, 45, 8938-8943	
1320	A parallel improvement algorithm for the bipartite subgraph problem. **1992**, 3, 139-45	51
1319	Artificial neural networks for plasma x-ray spectroscopic analysis. **1992**, 63, 4775-4777	11
1318	. **1992**, 7, 812-819	62
1317	Signal Processing by Model Neural Networks. **1992**, 34, 426-444	5
1316	Neural Network Construction Of Boolean Function Used In Process Control. **1992**,	
1315	.	
1314	Connectionism and artificial intelligence: history and philosophical interpretation. **1992**, 4, 295-313	6
1313	Scheduling for minimizing total actual flow time by neural networks. **1992**, 30, 503-511	40
1312	A generalized maximum neural network for the module orientation problem. **1992**, 72, 331-355	14
1311	Attentive multidirectional associative memory with application to pattern association. **1992**,	
1310	DIRECTED-GRAPH EPIDEMIOLOGICAL MODELS OF COMPUTER VIRUSES. **1992**, 71-102	25

1309	Neural Network Methods Applied to Character Recognition. **1992**, 10, 173-195	2
1308	Systems Combining Linearity and Saturations, and Relations of Neural Nets. **1992**, 25, 15-21	1
1307	Predictive Control of Distillation Columns Using Dynamic Neural Networks. **1992**, 25, 243-248	9
1306	Artificial neural networks. **1992**, 210, 610-36	15
1305	Bibliography. **1992**, 125, 603-641	
1304	A modified neuron model that scales and resolves network paralysis. **1992**, 3, 101-104	2
1303	Cognitive science: The scientific basis of emerging information technologies. **1992**, 27, 17-21	3
1302	Analysis of feedforward networks. **1992**,	
1301	Chemical implementation of finite-state machines. **1992**, 89, 383-7	82
1300	Chapter 1 Computer systems past, present & future. **1992**, 1-29	
1299	.	0
1298	Complexity issues in neural network computations. **1992**, 530-544	2
1297	Computing with a difference neuron. **1992**, 3, 187-204	2
1296	A mathematical neuron model with dynamically adjustable threshold and refractory period. **1992**, 3, 415-422	2
1295	Conceptual Issues in Cognitive Ethology. **1992**, 21, 69-109	5
1294	Recent Trend of Computer Colour Matching for Dyes. **1992**, 65, 700-710	
1293	Human visual perception and ROC methodology in medical imaging. **1992**, 37, 1433-76	54
1292	Principles of organization of neural systems controlling automatic movements in animals. **1992**, 39, 45-112	38

1291	. **1992**,	13
1290	Analog and digital computing. **1992**, 279-289	3
1289	.	199
1288	Manifesto of Brain Science. **1992**, 473-477	2
1287	.	1
1286	.	1
1285	.	1
1284	.	3
1283	.	
1282	.	
1281	.	
1280	.	1
1279	.	1
1278	An integrated built-in self-testing and self-repair of VLSI/WSI hexagonal arrays. **1992**,	
1277	. **1992**, 41, 430-437	163
1276	On reliable computation with formal neurons. **1992**, 14, 87-91	6
1275	.	
1274	Single neurone models: oversimple, complex and reduced. **1992**, 15, 414-21	123

1273	Natural vs. artificial intelligence: An axiomatic comparison. **1992**, 15, 55-74	2
1272	Biochemical switching device: biomimetic approach and application to neural network study. **1992**, 24, 109-27	7
1271	The progression of the entropy of a five dimensional psychotherapeutic system. **1992**, 9, 3-28	11
1270	Large-scale atmospheric controls on local precipitation in tropical Mexico. **1992**, 19, 1835-1838	58
1269	. **1992**, 39, 472-489	223
1268	. **1992**, 11, 464-474	14
1267	Learning as change of coordination dynamics: theory and experiment. **1992**, 24, 29-48	263
1266	Selective form of an excitable membrane plasticity. **1992**, 595, 67-73	8
1265	Multiplying with Synapses and Neurons. **1992**, 315-345	50
1264	Canonical Neurons and Their Computational Organization. **1992**, 27-60	17
1263	Finding Chaos in Noisy Systems. **1992**, 54, 399-426	24
1262	Reduction of conductance-based neuron models. **1992**, 66, 381-7	98
1261	Universality in neural networks: the importance of the 'mean firing rate'. **1992**, 67, 195-205	40
1260	An artificial maximum neural network: a winner-take-all neuron model forcing the state of the system in a solution domain. **1992**, 67, 243-251	53
1259	Quantum molecular computing: The self-assembly model. **1992**, 44, 125-143	20
1258	Neural network studies. 4. An extended study of the aqueous solubility of organic compounds. **1992**, 44, 853-867	12
1257	Stable, oscillatory, and chaotic regimes in the dynamics of small neural networks with delay. **1992**, 5, 735-743	80
1256	A multineuron interaction model for neural networks. **1992**, 69, 385-409	6

1255	Culture and evolution on populations of neural networks. **1992**, 69, 1137-1149	
1254	[Model of a neurological theory of speech]. **1992**, 79, 103-17	221
1253	Use of neural networks in detection of structural damage. **1992**, 42, 649-659	344
1252	Invariant pattern classification neural network versus FT approach. **1992**, 33, 161-168	1
1251	A neural network model for finding a near-maximum clique. **1992**, 14, 340-344	27
1250	Modelling 3-D cutting dynamics with neural networks. **1992**, 32, 829-853	8
1249	Stabilization of complex input-output functions in neural clusters formed by synapse selection. **1992**, 5, 403-413	38
1248	Maneuver prediction in air combat via artificial neural networks. **1992**, 24, 95-112	17
1247	Statistical properties of deterministic threshold elements the case of market price. **1992**, 184, 127-134	99
1246	Effect of aging and damage on the brain modelled by a phase transition. **1992**, 182, 23-28	
1245	Neural computing in discovering RNA interactions. **1992**, 27, 85-96	2
1244	Neural modeling with dynamically adjustable threshold and refractory period. **1992**, 27, 137-44	3
1243	Mathematical analysis of a neural network with inhibitory coupling. **1992**, 40, 103-126	17
1242	A feedforward neural network for multiple criteria decision making. **1992**, 19, 151-167	60
1241	Limit cycles of a bineuronal network model. **1992**, 56, 235-252	15
1240	Stochastic methods for neural systems. **1992**, 33, 5-25	6
1239	Analysis and design of a neural chip used for binary image processing. **1992**, 9, 358-366	
1238	A parallel algorithm for solving unfriendly beehive problems. **1992**, 4, 167-179	1

1237	Neural network computing for knight's tour problems. **1992**, 4, 249-254	11
1236	Neural network synthesis of spin echo multiecho sequences. **1992**, 5, 89-94	3
1235	Cybernetic problems of learning. Conditioning of control, of command, and of expediency. **1992**, 27, 84-90	
1234	Neural network methods for the modeling and control of welding processes. **1992**, 3, 229-235	10
1233	. **1992**, 39, 1444-1455	346
1232	. **1992**, 22, 552-554	2
1231	. **1992**, 22, 1348-1360	7
1230	Circuit layout through an analogy with neural networks. **1992**, 24, 251-257	2
1229	Circular nonsingular threshold transformations. **1992**, 105, 249-258	3
1228	A pseudo-neural system for hypothesis selection. **1992**, 7, 521-545	6
1227	Non-linear modelling of chemical data by combinations of linear and neural net methods. **1993**, 283, 508-517	30
1226	Neural networks for computing in structural analysis: Methods and prospects of applications. **1993**, 36, 2305-2318	36
1225	Simulation of stochastic micropopulation models--III. COGNET: an artificial neural network for visual recognition. **1993**, 23, 215-25	1
1224	Artificial neural networks and possible applications to desalination. **1993**, 92, 125-147	19
1223	Neural Networks in Chemistry. **1993**, 32, 503-527	343
1222	Neural network modeling of batch cell growth pattern. **1993**, 42, 376-80	43
1221	Neuronale Netze in der Chemie. **1993**, 105, 510-536	46
1220	A learning algorithm for the classification of dynamic events using a neuron-like dynamic tree. **1993**, 8, 509-526	

1219	Neural network performance on the bankruptcy classification problem. **1993**, 25, 377-380	34
1218	Periodically driven stochastic systems. **1993**, 234, 175-295	410
1217	The behaviour of the Lyapunov exponent of a map simulating neural activity. **1993**, 173, 399-406	4
1216	Backpropagation neural networks. **1993**, 18, 115-155	180
1215	A note on the low-dimensional display of multivariate data using neural networks. **1993**, 11, 129-33	14
1214	An experimental evaluation of neural networks for classification. **1993**, 20, 769-782	44
1213	A parallel multi-layer channel router on the HVH model. **1993**, 19, 63-77	
1212	Neural networks for computing in fracture mechanics. Methods and prospects of applications. **1993**, 106, 213-228	36
1211	Neural nets for mass and vibrational spectra. **1993**, 292, 141-159	23
1210	Detection of tool breakage in milling operations□. The neural network approach. **1993**, 33, 545-558	28
1209	Monitoring drill conditions with wavelet based encoding and neural networks. **1993**, 33, 559-575	59
1208	Artificial neural networks with quasipolynomial synapses and product synaptic contacts. **1993**, 70, 163-175	
1207	A neural network model for kindling of focal epilepsy: basic mechanism. **1993**, 68, 335-40	13
1206	Exclusive-OR function of single arborized neuron. **1993**, 69, 337-44	13
1205	Stochastical aspects of neuronal dynamics: Fokker-Planck approach. **1993**, 69, 155-64	8
1204	Modeling workpiece vibrations with neural networks. **1993**, 4, 95-107	2
1203	Brain stem neuronal noise and neocortical □esonance□**1993**, 70, 355-373	42
1202	Neurodynamic system theory: scope and limits. **1993**, 14, 137-52	10

1201 Associative memory with nonmonotone dynamics. **1993**, 6, 115-126 277

1200 Two-Group Classification Using Neural Networks*. **1993**, 24, 825-845 125

1199 AN APPLICATION OF THE THEORY OF NEURAL COMPUTATION TO THE PREDICTION OF WORKPLACE BEHAVIOR: AN ILLUSTRATION AND ASSESSMENT OF NETWORK ANALYSIS. **1993**, 46, 503-524 50

1198 . **1993**, 40, 570-576 88

1197 . **1993**, 39, 946-956 48

1196 Computer-simulated neural networks: an appropriate model for motor development?. **1993**, 34, 101-12 5

1195 Neural computation in medicine. **1993**, 5, 143-57 54

1194 Using neural networks to locate edges and linear features in satellite images. **1993**, 19, 1545-1565 13

1193 Reserve estimation using neural network techniques. **1993**, 19, 567-575 46

1192 A protoconnectionist theory of memory. **1993**, 21, 375-8 3

1191 Use of artificial neural networks for the classification of vegetable oils after GC analysis. **1993**, 35, 160-166 9

1190 Detection of electrocardiographic 'left ventricular strain' using neural nets. **1993**, 31, 343-8 15

1189 The neural net of neural network research. **1993**, 26, 169-192 75

1188 A neural network representation of electromyography and joint dynamics in human gait. **1993**, 26, 101-9 106

1187 Four-quadrant optical matrix-vector multiplication machine as a neural-network processor. **1993**, 32, 1330-7 1

1186 . **1993**, 41, 828-831 51

1185 Equalization for Optical Disk using Neural Network. **1993**, 8, 666-671

1184 . **1993**, 42, 497-501 13

1183	Self-Sustained Firing in Populations of Integrate-and-Fire Neurons. **1993**, 53, 253-264	38
1182	. **1993**, 42, 501-507	16
1181	Pattern recognition in coupled chemical kinetic systems. **1993**, 260, 335-7	75
1180	A generic systolic array building block for neural networks with on-chip learning. **1993**, 4, 400-7	39
1179	.	4
1178	. **1993**, 12, 19-20	0
1177	.	1
1176	Utilisation d'un r̂seau neuronal pour l'tude de la propagation d'une onde de crue dans un canal. **1993**, 31, 161-169	2
1175	.	
1174	An initialization method for multilayer neural networks as function approximators.	
1173	.	
1172	Generalization in probabilistic RAM nets. **1993**, 4, 360-3	13
1171	.	1
1170	.	
1169	.	
1168	.	4
1167	.	
1166	The statistical mechanics of learning a rule. **1993**, 65, 499-556	320

1165 . 3

1164 . 1

1163 Connectionist approaches to language disorders. **1993**, 7, 221-249 68

1162 . **1993**, 12, 124-136 19

1161 . **1993**, 12, 770-779 10

1160 . **1993**, 12, 1255-1265 7

1159 Neural Networks for Adaptive Control and Recursive Identification: A Theoretical Framework. **1993**, 381-436 5

1158 Combining Prior Symbolic Knowledge and Constructive Neural Network Learning. **1993**, 5, 365-375 22

1157 .

1156 . 2

1155 8: Genetic Algorithms and Neural Networks. **1993**, 13, 281-310

1154 Explorations in Evolutionary Robotics. **1993**, 2, 73-110 259

1153 CMOS digital retina chip with multi-bit neurons for image coding.

1152 .

1151 Identification of Nonlinear Dynamic Systems Using Neural Networks. **1993**, 60, 123-133 143

1150 . 1

1149 A Boolean net trainable as a computing robot control.

1148 .

1147	Intermittency in a Neural Network with Variable Threshold. **1993**, 21, 639-644	15
1146	Analog VLSI Neural Network Testing.	
1145	Inventory control neural network system.	
1144	Distributed dynamics in neural networks. **1993**, 47, 2155-2161	21
1143	McCulloch's neurons revisited. **1993**, 63-67	
1142	Spatiotemporal pattern processing in a compartmental-model neuron. **1993**, 47, 2899-2912	13
1141	. **1993**, 40, 745-748	5
1140	Artificial neural network modeling of adsorptive separation. **1993**, 97-122	3
1139	Self-Organizing Neural Networks for Stable Control of Autonomous Behavior in A Changing World. **1993**, 139-197	2
1138	Iterative Learning Control for Deterministic Systems. **1993**,	332
1137	Bibliography. **1993**, 149-176	
1136	The Machine as Metaphor and Tool. **1993**,	2
1135	Self-organizing neural networks as a means of cluster analysis in clinical chemistry. **1993**, 31, 311-6	
1134	Neural Networks for Pattern Recognition. **1993**, 119-166	14
1133	Influence of Cognitive Science in the Development of Production Systems. **1993**, 106, 101	2
1132	Stafford Beer Personal Reminiscences and Reflections. **1993**, 22, 60-73	5
1131	An O(1) approximate parallel algorithm for the n-task-n-person assignment problem.	
1130	Dynamics of neural networks with non-monotone activation function. **1993**, 4, 1-9	3

1129 Artificial Neural Networks in Control Applications. **1993**, 203-254 9

1128 Invariance under the order of updating in automata networks. **1993**, 4, 117-130

1127 Cognitive information and neural computing systems. **1993**,

1126 Real and Artificial Neural Nets. **1993**, 22, 7-20 2

1125 Neural Networks: Advances And Applications edited by E. Gelenbe North-Holland, Amsterdam, 1992, ix + 222 pp., distributed in USA and Canada by Elsevier Science Publishing Co., New York (Hardcover $108; paperback £24.95). - An Introduction To The Modeling Of Neural Networks, by P. Peretto. Collection Alea-Saclay: Monographs and Texts in Statistical No. 2, Cambridge University Press, 1992, xviii + 473 pp., (£60.00, Hardback); £24.95, Paperback) - Neural Networks For Systems And Control, edited by K. Warwick,. **1993**, 11, 586-586

1124 Space Shuttle Main Engine Plume Diagnostics: OPAD Approach to Vehicle Health Monitoring. **1993**,

1123 Literaturverzeichnis. **1994**, 806-846

1122 Literatur. **1994**, 175-177

1121 . **1994**, 2

1120 . **1994**, 1

1119 .

1118 An automatic VLSI implementation of Hopfield ANNs. 0

1117 .

1116 . 0

1115 Selection versus instruction: use of computer models to compare brain theories. **1994**, 37, 211-42; discussion 285-8 2

1114 . 4

1113 Using Hopfield networks in the nominal color coding of classified images.

1112 Introduction to the special issue on neural networks for speech processing. **1994**, 2, 113-114 3

1111	Computational Architectures Integrating Neural And Symbolic Processes. **1994**,	25
1110	Fuzzy Logik. **1994**,	1
1109	An Ethological Model for Implementation in Mobile Robots. **1994**, 3, 51-79	12
1108	An Internal Report for Connectionists. **1995**, 223-244	5
1107	Time in neural networks. **1994**, 5, 3-11	6
1106	Non-symbolic approaches to artificial intelligence and the mind. **1994**, 349, 87-102	4
1105	Connectionism and psychoanalysis. **1994**, 42, 581-611	17
1104	Lernfiige konnektionistische Strukturen in der Automatisierungstechnik. **1994**, 42, 569-572	
1103	The application of neural network techniques to structural analysis by implementing an adaptive finite-element mesh generation. **1994**, 8, 177-191	9
1102	Intelligent systems in finance. **1994**, 1, 195-207	4
1101	Multi-Source Image Classification II: An Empirical Comparison of Evidential Reasoning and Neural Network Approaches. **1994**, 20, 396-407	50
1100	Dynamical phase transitions in the Little-Hopfield model. **1994**, 27, 4115-4124	2
1099	A review of RAM based neural networks.	12
1098	Synthesis of Brain-State-in-a-Box (BSB) based associative memories. **1994**, 5, 730-7	38
1097	Threshold devices: Fractal noise and neural talk. **1994**, 50, 2513-2522	86
1096	Locally recurrent globally feedforward networks: a critical review of architectures. **1994**, 5, 229-39	202
1095	Feedforward ANN for 2-1 fixed point ALUs.	
1094	.	8

1093 The basic ideas in neural networks. **1994**, 37, 87-92 224

1092 Fuzzy Set Theoretic Tools for Image Analysis. **1994**, 247-296 2

1091 Conditions for periodic and aperiodic behavior of formal neural nets. **1994**, 50, 217-23

1090 Physical models of cognition. **1994**, 33, 1113-1161 5

1089 Pulse-modulated analog neuron circuits. **1994**, 6, 45-51 1

1088 Die Integration von Multikriteria-Verfahren insbesondere mittels neuronaler Netze. **1994**, 16, 277-283 4

1087 A neural network approach to geostatistical simulation. **1994**, 26, 491-503 13

1086 Pulse-modulated analog neuron circuits. **1994**, 8, 45-51

1085 A study and model of the role of the Renshaw cell in regulating the transient firing rate of the motoneuron. **1994**, 71, 251-62 3

1084 Modeling perceptual learning with multiple interacting elements: a neural network model describing early visual perceptual learning. **1994**, 1, 323-38 5

1083 Knowledge-based artificial neural networks. **1994**, 70, 119-165 433

1082 Halfspace learning, linear programming, and nonmalicious distributions. **1994**, 51, 245-250 5

1081 Use of neural networks for the optimum frequency assignment problem. **1994**, 77, 106-116 4

1080 Interneural delay modification synchronizes biologically plausible neural networks. **1994**, 7, 589-607 29

1079 A distributed outstar network for spatial pattern learning. **1994**, 7, 159-168 17

1078 Saturation at high gain in discrete time recurrent networks. **1994**, 7, 449-453 8

1077 Using artificial neural networks for solving chemical problems. **1994**, 22, 165-189 118

1076 Use of neural networks in the analysis and interpretation of site investigation data. **1994**, 16, 105-122 23

1075	Role of inhibition in memory retrieval by hippocampal area CA3. **1994**, 18, 55-68	10
1074	Automatic ranking of fuzzy numbers with the criterion of a decision-maker learnt by an artificial neural network. **1994**, 64, 1-19	48
1073	Pattern recognition with a model of fuzzy neuron using degree of consensus. **1994**, 66, 241-250	8
1072	A review of combinatorial problems arising in feedforward neural network design. **1994**, 52, 111-138	7
1071	The BSP400: a modular neurocomputer. **1994**, 18, 67-78	3
1070	Comparing the predictive performance of a neural network model with some traditional market response models. **1994**, 10, 235-244	84
1069	Computational intelligence standards: motivation, current activities and progress. **1994**, 16, 185-203	4
1068	Neural networks for decision support:: Problems and opportunities. **1994**, 11, 393-414	42
1067	Neural network models of cortical functions based on the computational properties of the cerebral cortex. **1994**, 88, 291-308	11
1066	Complexities of metabolic regulation. **1994**, 19, 519-20	44
1065	Ceramic powder characterization by multilayer perceptron (MLP) data compression and classification. **1994**, 5, 225-239	5
1064	Mysteries of mathematics and computation. **1994**, 16, 10-15	5
1063	[Between neuroscience and cognitive psychology: a frontier in question]. **1994**, 115, 485-502	1
1062	Artificial neural networks for pattern recognition. **1994**, 19, 189-238	38
1061	A model of neural circuit with adaption and nonlinear connection. **1994**, 11, 193-200	
1060	A generalized ionic model of the neuronal membrane electrical activity. **1994**, 41, 125-33	14
1059	. **1994**, 40, 429-438	3
1058	. **1994**, 40, 838-847	16

1057 . **1994**, 24, 300-306 11

1056 Neural Network Approaches to Aid Simple Truss Design Problems. **1994**, 9, 211-218 25

1055 Artificial neural networks: an econometric perspective *. **1994**, 13, 1-91 258

1054 Neural scheduling algorithms for time-multiplex switches. **1994**, 12, 1481-1487 10

1053 Optimization of groundwater remediation using artificial neural networks with parallel solute transport modeling. **1994**, 30, 457-481 348

1052 Characterization of aquifer properties using artificial neural networks: Neural kriging. **1994**, 30, 483-497 96

1051 Neural networks and their applications. **1994**, 65, 1803-1832 365

1050 International Federation of Clinical Chemistry. Use of artificial intelligence in analytical systems for the clinical laboratory. IFCC Committee on Analytical Systems. **1994**, 231, S5-34 7

1049 . **1994**, 42, 2890-2898 8

1048 Problem solving in artificial neural networks. **1994**, 42, 229-81 3

1047 .

1046 .

1045 . **1994**, 17, 212-228 100

1044 . 1

1043 The Widrow-Hoff algorithm for McCulloch-Pitts type neurons. **1994**, 5, 924-9 5

1042 Applications of neural networks in manufacturing management systems. **1994**, 5, 258-270 11

1041 .

1040 . 3

1039	Decoding neuronal firing and modelling neural networks. **1994**, 27, 291-331	100
1038	A Comparative Analysis of Artificial Neural Networks Using Financial Distress Prediction. **1994**, 3, 241-252	40
1037	. **1994**,	2
1036	The scientific methodology in the light of cybernetics. **1994**, 23, 1-132	1
1035	.	
1034	What Is There to Know?. **1994**, 23, 104-110	1
1033	Computational modeling and elementary process analysis in visual word recognition.. **1994**, 20, 1292-1310	31
1032	Nonlinear Input/Output Modeling. **1994**, 27, 1-15	1
1031	Statistics and images 2: overview. **1994**, 21, 1-5	2
1030	Recent Applications of Neural Networks for Spatial Data Handling. **1994**, 20, 368-380	12
1029	Visual neural dynamics. **1994**,	
1028	Evolution of gene networks by gene duplications: a mathematical model and its implications on genome organization. **1994**, 91, 4387-91	147
1027	Remarks on Scientific Creativity Considered as a Cybernetic Process. **1994**, 23, 71-75	
1026	INTRODUCTION TO GENERALIZED SAMPLING-RECONSTRUCTION. **1994**, 25, 275-288	
1025	A small selection of neural network methods and their statistical connections. **1994**, 21, 9-37	
1024	What makes connectionism different?. **1994**, 2, 327-348	2
1023	Pattern recognition, chaos, and multiplicity in neural networks of excitable systems. **1994**, 91, 63-7	51
1022	Case Studies on Modeling Manufacturing Processes Using Artificial Neural Networks. **1995**, 117, 412-417	16

1021 The decade of the brain ⁄some comments. **1995**, 24, 25-34 6

1020 Nonlinear Adaptive Filters: Design and Application. **1995**, 28, 31-42

1019 An Object-Oriented Classification of Agricultural Data Based on Neural Networks. **1995**, 28, 201-205

1018 Robust Control for Manufacturing Systems. **1995**, 28, 269-273

1017 Identification of Well-Test Models by Use of Higher-Order Neural Networks. **1995**, 7, 146-150 2

1016 . **1995**, 25, 926-932 40

1015 Performance of a neural binary pattern classifier. **1995**, 142, 152

1014 Neural Networks for Forecasting: An Introduction. **1995**, 43, 463-474 18

1013 Artificial neural networks: A new methodology for industrial market segmentation. **1995**, 24, 431-438 64

1012 Neuroscience and computing algorithms. **1995**, 84, 199-208 3

1011 Chaotic neural nets, computability, and undecidability: Toward a computational dynamics. **1995**, 10, 41-69 6

1010 Chaos in the brain: Possible roles in biological intelligence. **1995**, 10, 71-88 51

1009 Use of artificial intelligence in analytical systems for the clinical laboratory. **1995**, 28, 373-89 9

1008 Recursive construction of periodic steady state for neural networks. **1995**, 143, 251-267 1

1007 Stochastic resonance in threshold devices. **1995**, 17, 827-834 4

1006 Neural networks as set-valued dynamical systems and the universality of the windowed Fourier transform. **1995**, 5, 287-316 1

1005 Do neurons have a voltage or a current threshold for action potential initiation?. **1995**, 2, 63-82 57

1004 Neural networks for computing in the elastoplastic analysis of structures. **1995**, 30, 1-15 17

1003	Neural nets for modelling rainfall-runoff transformations. **1995**, 9, 299-313	55
1002	A ternary logic model for recurrent neuromime networks with delay. **1995**, 73, 177-88	7
1001	Indentification of plastic waste using spectroscopy and neural networks. **1995**, 35, 1011-1015	28
1000	Protein molecules as computational elements in living cells. **1995**, 376, 307-12	570
999	RULE-BASED STABILIZATION OF THE INVERTED PENDULUM. **1995**, 11, 348-356	13
998	Dynamic modeling of crossflow microfiltration using neural networks. **1995**, 98, 263-273	98
997	A neural network for classifying the financial health of a firm. **1995**, 85, 53-65	109
996	Implementation of logic functions and computations by chemical kinetics. **1995**, 84, 180-193	47
995	Self-organization in a biochemical-neuron network. **1995**, 84, 194-203	7
994	The Helmholtzian equation: stabilizing mechanisms for quadratic nonlinear fields. **1995**, 83, 374-382	
993	A neural compiler. **1995**, 141, 1-52	16
992	On the acceptance power of regular languages. **1995**, 148, 207-225	14
991	Some mathematical and computer modelling of neural networks. **1995**, 19, 386-399	12
990	Neural network classification of TeV gamma-ray images. **1995**, 3, 137-150	12
989	Nonlinear input/output modelling. **1995**, 5, 197-211	62
988	An artificial neural network system for temporal-spatial sequence processing. **1995**, 28, 1267-1276	3
987	A decision personal index of fuzzy numbers based on neural networks. **1995**, 73, 185-199	7
986	Hypnosis modelling in neural networks. **1995**, 57, 1-20	

985 Generalised hardening plasticity approximated via anisotropic elasticity: A neural network approach. **1995**, 125, 123-139 15

984 Looking around: 35 years of oculomotor modeling. **1995**, 23, 456-66 1

983 Hypnosis modelling in neural networks. **1995**, 57, 1-20 2

982 Neural networks and discrimination of seismic signals. **1995**, 21, 279-288 10

981 On an adaptable connectionist robot control system. **1995**, 9, 165-185 0

980 Radar assessment of structural concrete using neural networks. **1995**, 28, 281-288 18

979 Plasticity including the Bauschinger effect, studied by a neural network approach. **1995**, 113, 63-75 6

978 A comparative study of two learning rules for associative memory. **1995**, 45, 569-582 3

977 Quantitative structure–sublimation enthalpy relationship studied by neural networks, theoretical crystal packing calculations and multilinear regression analysis. **1995**, 2023-2030 34

976 Recurrent neural networks. **1995**, 29-45 1

975 Report on the ACM CSC '95 panel. **1995**, 6, 7-11

974 Fundamental and Practical Aspects of Neural Computing. **1995**, 21-109 7

973 Inteligência biológica versus inteligência artificial: uma abordagem crítica. **1995**, 53, 361-368

972 Controlling chaos by pinning neurons in a neural network. **1995**, 52, R2129-R2132 6

971 Versatility and adaptive performance. **1995**, 51, 5027-5032 29

970 A neuron MOS transistor-based multiplier cell. 5

969 Time structure of the activity in neural network models. **1995**, 51, 738-758 303

968 Quantum Neural Computing. **1995**, 94, 259-313 61

967	Perceptrons. **1995**, 67-81	
966	Predicting Corporate Failure Using a Neural Network Approach. **1995**, 4, 95-111	44
965	Neurotransistor:/spl Gt/MINUSa neuron-like high-functionality transistor implementing intelligence on silicon.	
964	Classification of linearly nonseparable patterns by linear threshold elements. **1995**, 6, 318-31	20
963	Neuromorphic analogue VLSI. **1995**, 18, 255-81	149
962	Periodic solutions in systems of piecewise- linear differential equations. **1995**, 10, 179-193	51
961	Neuronale Netze. **1995**,	19
960	A new stochastic neural network model and its application to grouping parts and tools in flexible manufacturing systems. **1995**, 33, 1535-1548	15
959	The challenge of sociocybernetics. **1995**, 24, 6-32	41
958	Molecular Similarity in Drug Design. **1995**,	52
957	The Mixture Resolution Problem Applied to Airborne Particle Source Apportionment. **1995**, 47-86	4
956	Ambiguity in Mind and Nature. **1995**,	16
955	Parallel learning for supervised networks in one dimensional real space.	
954	Adaptive learning control of affine nonlinear systems using piecewise linearly trained networks.	1
953	Intelligence implementation on silicon based on four-terminal device electronics.	3
952	Detecting attractors in production systems by using system dynamics and neural networks.	0
951	.	5
950	Artificial intelligence (panel). **1995**,	

949 New Perceptron Model Using Random Bitstreams. **1995**, 7, 280-283

948 Back propagation neural networks: Theory and applications for food science and technology. **1995**, 37, 2151-2168

947 Karl Steinbuch, ein zu Unrecht vergessener Pionier der künstlichen neuronalen Systeme. **1995**, 49,

946 Cellular-Neural computations. Formal model and possible applications. **1995**, 21-35 7

945 Tri-State Neural Network and Analysis of its Performance. **1995**, 1, 235-245 3

944 Neural integration at the mesoscopic level: the advent of some ideas in the last half century. **1995**, 4, 216-35 5

943 Comparison of Neural Network Algorithms for Face Recognition. **1995**, 65, 37-51 7

942 Neural networks and some applications to finance. **1995**, 2, 17-42 7

941 A Teleological Critique of Modern Cognitivism. **1995**, 5, 511-531 4

940 A formal scheme for avoiding undecidable problems. Applications to chaotic behavior characterization and parallel computation. **1995**, 9-52 5

939 . **1995**, 30, 913-922 31

938 Pattern Analysis and Classification. **1995**, 279-324 4

937 What NARX networks can compute. **1995**, 95-102 2

936 The Nervous Systems of Invertebrates: An Evolutionary and Comparative Approach. **1995**, 16

935 Artificial Neural Networks: Implications for Pharmaceutical Sciences. **1995**, 21, 119-155 82

934 A neuro-fuzzy system for chemical agent detection. **1995**, 3, 415-424 12

933 On the computational power of Elman-style recurrent networks. **1995**, 6, 1000-4 62

932 .

931	Neural network trends for frequency control: a review.	1
930	Constructive neural network design for the solution of two-state classification problems with application to channel equalization.	1
929	Canonical piecewise-linear networks. **1995**, 6, 43-50	27
928	.	
927	. **1995**, 8, 304-308	9
926	The backpropagation neural network--a Bayesian classifier. Introduction and applicability to pharmacokinetics. **1995**, 29, 69-79	12
925	Energy-minimizing neural network with symbol-valued units and its application to the analysis of basal cell carcinoma.	
924	Neuroleptic effects on acquisition and performance of learned behaviors: a reinterpretation. **1995**, 56, 2239-45	5
923	Introduction to neural networks. **1995**, 346, 1075-9	391
922	Learning in linear neural networks: a survey. **1995**, 6, 837-58	139
921	Artificial neural network predictions of lengths of stay on a post-coronary care unit. **1995**, 24, 251-6	26
920	Color set selection for nominal coding by Hopfield networks. **1995**, 11, 150-155	8
919	Computation beyond the turing limit. **1995**, 268, 545-8	177
918	Fundamentals of Automatic Speech Recognition. **1996**, 73-124	
917	N. **1996**, 427-465	
916	A neural network model for multilayer topological via minimization in a switchbox. **1996**, 15, 1012-1020	4
915	APPLICATIONS OF ARTIFICIAL NEURAL NETWORKS TO SIMULATE WATER-TABLE DEPTHS UNDER SUBIRRIGATION. **1996**, 21, 27-44	8
914	Using neural networks to predict the onset of diabetes mellitus. **1996**, 36, 35-41	42

913	Heuristics from Nature for Hard Combinatorial Optimization Problems. **1996**, 3, 1-21	150
912	Predicting grassland community changes with an artificial neural network model. **1996**, 84, 91-97	62
911	. **1996**, 13, 24-49	89
910	Understanding Neural Networks as Statistical Tools. **1996**, 50, 284	53
909	Representation of finite state automata in Recurrent Radial Basis Function networks. **1996**, 23, 5-32	97
908	Neural system states and networks. **1996**, 46, 529-31	
907	Solving optimization problems with variable-constraint by an extended Cohen-Grossberg model. **1996**, 26, 771-800	9
906	A unified constructive network model for problem-solving. **1996**, 26, 606-15	
905	A neural-network algorithm for a graph layout problem. **1996**, 7, 341-5	25
904	Algorithmic aspects of a neuron for coherent wave synapse realizations. **1996**, 7, 1262-71	
903	Multi-valued and universal binary neurons: mathematical model, learning, networks, application to image processing and pattern recognition. **1996**,	9
902	Chaotic neuron models and their VLSI circuit implementations. **1996**, 7, 1339-50	17
901	An instruction systolic array architecturea.for neural networks. **1996**, 61, 63-89	4
900	The applicability of information criteria for neural network architecture selection.	
899	Recurrent neural network for high-resolution radar ship target recognition.	1
898	TOM, a new temporal neural net architecture for speech signal processing.	4
897	Neural network and statistical perspectives of classification. **1996**,	2
896	Computationally Efficient Fuzzy Adaptive Equalizer for Nonlinear Channels. **1996**, 4, 65-73	

895	Literaturverzeichnis. **1996**, 645-662	
894	A Learning Method for Neural Networks Based on a Pseudoinverse Technique. **1996**, 3, 201-209	1
893	Complicated and computational dynamics of spatio-temporal neurochaos.	
892	References. **1996**, 355-390	
891	Guest Editorial. **1996**, 23, 639-654	1
890	Intraneuronal information processing, directional selectivity and memory for spatio-temporal sequences. **1996**, 7, 251-259	17
889	Dynamics of the brain at global and microscopic scales: Neural networks and the EEG. **1996**, 19, 285-295	238
888	Is the time ripe for integration of scales?. **1996**, 19, 295-296	
887	Is the distribution of coherence a test of the model?. **1996**, 19, 296-296	
886	Levels, models, and brain activities: Neurodynamics is pluralistic. **1996**, 19, 296-297	2
885	Multiscale modeling of the brain should be validated in more detail against the biological data. **1996**, 19, 297-298	
884	Neural system stability. **1996**, 19, 298-299	
883	Modeling for modeling's sake?. **1996**, 19, 299-299	
882	Nonlinear nonequilibrium nonquantum nonchaotic statistical mechanics of neocortical interactions. **1996**, 19, 300-301	3
881	Comparative reduction of theories or over-simplification?. **1996**, 19, 301-302	1
880	Why does the human brain need to be a nonlinear system?. **1996**, 19, 302-303	30
879	Neuromodulation can significantly change the dynamical state of cortical networks. **1996**, 19, 303-304	
878	Empirical data base for simulation: Firing rates and axonal conduction velocity for cortical neurones. **1996**, 19, 304-305	

877 Chaos in induced rhythms of the brain □the value of ERP studies. **1996**, 19, 305-305 1

876 Multiscale neocortical dynamics, experimental EEG measures, and global facilitation of local cell assemblies. **1996**, 19, 305-306 4

875 Dynamics of the brain □from the statistical properties of neural signals to the development of representations. **1996**, 19, 306-307

874 Is there chaos in the brain?. **1996**, 19, 307-308 14

873 The EEG data indicate stochastic nonlinearity. **1996**, 19, 308-308

872 The form of chaos in the noisy brain can manifest function. **1996**, 19, 309-309 1

871 Rhythmicity in the EEG and global stabilization of the average level of excitation in the cerebral cortex. **1996**, 19, 309-310 2

870 Multiscale modeling of brain dynamics depends upon approximations at each scale. **1996**, 19, 310-320

869 An Advanced Robot Control Scheme Using ANN and Fuzzy Theory Based Solutions. **1996**, 14, 189-198 1

868 A fuzzy automaton model and its applications.

867 A golden ANN-iversary. **1996**, 25, 28-38 2

866 Comparative study on two types of mode-sensitive neural networks for damage assessment. **1996**,

865 Relations Between Hopfield-Type Continuous Networks and Discrete-Time Binary Networks. **1996**, 42, 215-221

864 Visual perception and cognition: A synopsis of modeling aspects. **1996**, 116, 225-236

863 Optical neural networks using electron trapping materials. **1996**, 10287, 206

862 Chapter 4 Neural networks and visual information processing. **1996**, 103-141

861 A semantic logic for CAST related to Zuse, Deutsch and McCulloch and Pitts computing principles. **1996**, 494-510 3

860 Artificial neural networks: a tutorial. **1996**, 29, 31-44 1371

859	Nonlinearity creates linear independence. **1996**, 5, 189-203	16
858	Can artificial intelligence be of help to psychoanalysis ... or ... vice versa?. **1996**, 56, 395-413	2
857	A neural network approach to the classification of electron and proton whistlers. **1996**, 58, 911-924	6
856	Solving optimization problems with variable-constraint by an extended Cohen-Grossberg model. **1996**, 158, 279-341	9
855	Modeling and control of a semiconductor manufacturing process with an automata network: An example in plasma etch processing. **1996**, 23, 573-585	5
854	Laboratory of Caribbean Brain Research Organization in the decade of the brain midpoint. Results in reaching behavior--interferences of subcortical motor centers, neurotransmitter blocking and brain function modeling. **1996**, 28, 253-8	1
853	On the mathematical modelling of pain. **1996**, 21, 1133-40	20
852	On the application of the Neuron MOS transistor principle for modern VLSI design. **1996**, 43, 1700-1708	29
851	Automatic learning in chaotic neural networks. **1996**, 79, 87-93	3
850	Forecasting Austrian IPOs: An application of linear and neural network error-correction models. **1996**, 15, 237-251	17
849	The neural network approximation to the size effect in fracture of cementitious materials. **1996**, 54, 249-261	21
848	4000 Jahre Gehirnforschung. **1996**, 26, 136-148	1
847	Commonsense reasoning with rules, cases, and connectionist models: A paradigmatic comparison. **1996**, 82, 187-200	42
846	Representation theory and invariant neural networks. **1996**, 69, 33-60	6
845	Bounds on the complexity of recurrent neural network implementations of finite state machines. **1996**, 9, 243-252	57
844	Neurocontrol: A literature survey. **1996**, 23, 101-117	18
843	The hierarchical emergence of consciousness. **1996**, 40, 481-489	0
842	How OWE architectures encode contextual effects in artificial neural networks. **1996**, 41, 63-74	1

841 An adaptive approach in distance protection using an artificial neural network. **1996**, 37, 39-44 25

840 A hybrid econometric□neural network modeling approach for sales forecasting. **1996**, 43, 175-192 66

839 Distributed memory and localized memory in neural networks. **1996**, 9, 121-127 1

838 On the control of chaotic neurons. **1996**, 7, 1397-1409 4

837 A unified constructive network model for problem-solving. **1996**, 156, 217-261 2

836 An almost sure central limit theorem for the overlap parameters in the Hopfield model. **1996**, 62, 243-262 7

835 Recurrent neural networks coupled with linear systems: Observability in continuous and discrete time. **1996**, 27, 109-116 2

834 Using neural networks to predict component inspection requirements for aging aircraft. **1996**, 30, 257-267 16

833 Use of a neural network to exploit light division in a triangular scintillating crystal. **1996**, 373, 111-118 16

832 Neural networks as a tool for compact representation of ab initio molecular potential energy surfaces. **1996**, 14, 12-8 25

831 Overview of hybrid optical neural networks. **1996**, 28, 59-72 32

830 Nonlinear adaptive filter performance in typical applications. **1996**, 20, 107-118 1

829 Notions of Associative Memory and Sparse Coding. **1996**, 9, 1429-1458 101

828 Integrated decision support for aviation safety inspectors. **1996**, 23, 381-403 6

827 Symmetric discrete universal neural networks. **1996**, 168, 405-416 3

826 □Bit serial binary addition with linear threshold networks. **1996**, 14, 249-264 3

825 Feedforward versus recurrent neural networks for forecasting monthly japanese yen exchange rates. **1996**, 3, 59-75 16

824 On Alan Turing's anticipation of connectionism. **1996**, 108, 361-377 46

823	Neural networks in the capital markets: An application to index forecasting. **1996**, 9, 37-50	6
822	Grounding computational engines. **1996**, 10, 65-82	6
821	Adaptive internal activation functions and their effect on learning in feed forward networks. **1996**, 4, 29-38	
820	RECURRENT NEURAL NETWORKS AND FINITE AUTOMATA. **1996**, 12, 567-574	19
819	MODELLING ENTREPRENEURIAL INCLINATION WITH AN ARTIFICIAL NEURAL NETWORK. **1996**, 13, 14-24	1
818	Axiomatic world theory: An overview the general theory of evolution in brief. **1996**, 46, 85-124	1
817	Towards the automatic interpretation of retinal images. **1996**, 80, 937-8	4
816	Les rŝeaux de neurones artificiels: un apport potentiel aux tudes marketing. **1996**, 11, 63-81	2
815	Neuronal population dynamics with post inhibitory rebound:A reduction to piecewise linear discontinuous circle maps. **1996**, 11, 193-217	8
814	Global Analysis of Recurrent Neural Networks. **1996**, 1-54	4
813	Nestor: a trail blazer for hypertext.	
812	A NEURAL NETWORK APPROACH TO THE PHASE UNWRAPPING PROBLEM IN FRINGE ANALYSIS. **1996**, 12, 391-400	9
811	Models of Neural Networks III. **1996**,	7
810	Chaos and associative generation of information by networks of neuronal oscillators. **1996**, 54, 2802-2806	2
809	Neuron-MOS-based association hardware for real-time event recognition.	1
808	Trade-offs between traditional control and intelligent control: development of an applications framework.	
807	Neural Networks in Applied Statistics. **1996**, 38, 205-214	107
806	Understanding Neural Networks as Statistical Tools. **1996**, 50, 284-293	158

805 Connectionism and Neural Networks. **1996**, 135-155 4

804 From neuron to network: measurement, analysis and modeling. **1996**, 63, 296-304

803 Intelligent energy saving power system control of telecom DC power plant. 1

802 A Hopfield's model to find implicit links in hypertexts.

801 A single spike suffices: the simplest form of stochastic resonance in model neurons. **1996**, 7, 687-716 68

800 Control strategies for spatio-temporal chaotic systems and neural networks. 0

799 The Computational Power of Discrete Hopfield Nets with Hidden Units. **1996**, 8, 403-415 15

798 Qualitative behaviour of some simple networks. **1996**, 29, 5019-5033 24

797 A Single Electron Neuron Device. **1997**, 36, 4172-4175 8

796 Pattern Classification in a Perceptron Circuit Using Lead Phthalocyanine Films. **1997**, 36, 4509-4512

795 Nonlinear Science The Impact of Biology. **1997**, 07, 2075-2104 5

794 The use of neural techniques in PIV and PTV. **1997**, 8, 1399-1405 19

793 Model for a neural network structure and signal transmission. **1997**, 56, 4489-4496 2

792 Complete memory structures for approximating nonlinear discrete-time mappings. **1997**, 8, 1397-409 6

791 Globally and randomly coupled Ginzburg-Landau maps. **1997**, 56, 99-111 7

790 Perceptron algorithms for the classification of non-separable populations. **1997**, 13, 205-222 0

789 Common Chaos in Arbitrarily Complex Feedback Networks. **1997**, 79, 653-656 43

788 Book Reviews. **1997**, 92, 1639-1655

787	A gradual neural-network approach for frequency assignment in satellite communication systems. **1997**, 8, 1359-70	32
786	Biological substrates of operant conditioning and the operant-respondent distinction. **1997**, 67, 246-53	9
785	Moving Horizon State Estimation for a bioprocesses modelled by a neural network. **1997**, 19, 263-270	7
784	Complex Dynamics in a Population of Threshold Elements. **1997**, 97, 849-857	1
783	Self-learning fuzzy air handling system controller. **1997**, 18, 99-108	11
782	From Instability to Intelligence. **1997**,	
781	Music Recognition: An Illustrative Application of a Connectionist Model. **1997**, 25, 161-185	5
780	The decade of the brain - further thoughts. **1997**, 26, 255-264	3
779	2-1 redundant addition with threshold logic.	
778	A binary neural network approach for one-shot scheduling problems in multicast packet switching systems.	1
777	Meanfield chaos dynamics with changing chaos threshold value.	0
776	Neural networks under periodic operating conditions: transitions between dynamic states.	
775	A module neural network and its basic behaviors.	0
774	Basic concepts of artificial neural networks (ANN) modeling in the application to pharmaceutical development. **1997**, 2, 95-109	59
773	Towards intelligent systems for boiler design. **1997**, 211, 399-409	4
772	Psychobiological models of hippocampal function in learning and memory. **1997**, 48, 481-514	83
771	The effect of data sampling on the performance evaluation of artificial neural networks in medical diagnosis. **1997**, 17, 186-92	56
770	Neural Networks and Fuzzy Systems. **1997**,	20

769 On the use of computation in modelling behaviour. **1997**, 8, R1-R32 0

768 Electric Load Forecasting Using Artificial Neural Networks and Deficit Management. **1997**, 19, 771-782 3

767 Smart engineering system for information processing. **1997**,

766 Cognition is not computation; Evolution is not optimisation. **1997**, 685-690 8

765 From finite automata toward hybrid systems (Extended abstract). **1997**, 411-422 5

764 Theory and behavior analysis: commentary on donahoe, palmer, and burgos. **1997**, 67, 245-6

763 Multi-neuron Interactions in Neural Network Models of Associative Memory. **1997**, 293-317

762 Face Detection and Recognition From Distance Based on Deep Learning. **2022**, 144-160 0

761 Structural Vibration Control in Excited Structures: History and Prospects.

760 Do Artificial Neural Networks Always Provide High Prediction Performance? An Experimental Study on the Insufficiency of Artificial Neural Networks in Capacitance Prediction of the 6H-SiC/MEH-PPV/Al Diode. **2022**, 14, 1511 0

759 A simple topological model for two coupled neurons. **2022**, 32, 073124 1

758 A Comprehensive Survey on Poisoning Attacks and Countermeasures in Machine Learning. 1

757 Machine learning and clinical neurophysiology.

756 Evolving Gamified Smart Communities in Mexico to Save Energy in Communities through Intelligent Interfaces. **2022**, 15, 5553 0

755 Algorithms, data, and platforms: the diverse challenges of governing AI. 1-26 1

754 Correlating the Unconfined Compressive Strength of Rock with the Compressional Wave Velocity Effective Porosity and Schmidt Hammer Rebound Number Using Artificial Neural Networks. 1

753 Mixture density networks for the indirect estimation of reference intervals. **2022**, 23,

752 Biomorphic robot controls: event driven model free deep SNNs for complex visuomotor tasks. **2022**, 27, 429-440

751	Soft Computing Techniques for Maximum Power Point Tracking in Wind Energy Harvesting System: A Survey. **2022**, 137-170	
750	Overfitting Prevention in Accident Prediction Models: Bayesian Regularization of Artificial Neural Networks. 036119812211113	
749	A parametric study of subcooled flow boiling of Al2O3/water nanofluid using numerical simulation and artificial neural networks. 1-31	1
748	Long-Short Term Memory Technique for Monthly Rainfall Prediction in Thale Sap Songkhla River Basin, Thailand. **2022**, 14, 1599	1
747	A Raspberry Pi Based Hardware Implementations of Various Neuron Models.	1
746	AI- and IoT-based hybrid model for air quality prediction in a smart city with network assistance.	0
745	A Machine Learning Framework for Predicting the Glass Transition Temperature of Homopolymers.	1
744	A systematic review on machine learning and deep learning techniques in cancer survival prediction. **2022**,	1
743	Peak ground acceleration prediction using artificial neural networks for Kachchh, Gujarat, India.	
742	Natural Gas Spot Price Prediction Using a Machine Learning Datacentric Approach. **2022**,	
741	Prediction and Interpretation of Water Quality Recovery after a Disturbance in a Water Treatment System Using Artificial Intelligence. **2022**, 14, 2423	
740	Optimization of Fracturing Parameters with Machine-Learning and Evolutionary Algorithm Methods. **2022**, 15, 6063	2
739	Discontinuous neural networks and discontinuity learning. **2022**, 114678	
738	Neural Information Processing and Computations of Two-Input Synapses. 1-30	
737	How do we choose the appropriate deep learning method for our case? A systematic literature review.	
736	ANN-based methods for solving partial differential equations: a survey. **2022**, 29, 233-248	
735	Learning binary threshold networks for gene regulatory network modeling. **2022**,	0
734	Estimation of Monthly Brand New Car Sales in Turkey with ARIMA Method and Artificial Neural Networks (ANN).	

733 At the heart of artificial intelligence: the future might well be based on synthetic cells.

732 On the forecasting of multivariate financial time series using hybridization of DCC-GARCH model and multivariate ANNs.

731 Indirect Analysis of Concrete Slump Using Different Metaheuristic-Empowered Neural Processors. **2022**, 14, 10373 2

730 Cognitive science. **2022**, 195-216

729 Deep Learning Techniques for Peer-to-Peer Physical Systems Based on Communication Networks. **2022**, 2022, 1-12

728 Linear leaky-integrate-and-fire neuron model based spiking neural networks and its mapping relationship to deep neural networks. 16,

727 Prediction of Emission Characteristics of Generator Engine with Selective Catalytic Reduction Using Artificial Intelligence. **2022**, 10, 1118 1

726 Linearly Constrained Nonsmooth Optimization for Training Autoencoders. **2022**, 32, 1931-1957

725 Evaluation of Accuracy Enhancement in European-Wide Crop Type Mapping by Combining Optical and Microwave Time Series. **2022**, 11, 1397 0

724 A new method based on machine learning to forecast fruit yield using spectrometric data: analysis in a fruit supply chain context.

723 The mechanism of orientation detection based on color-orientation jointly selective cells. **2022**, 109715

722 Künstliche Intelligenz in der orthopädisch-unfallchirurgischen Radiologie.

721 Shallow U-Net deep learning approach for phase retrieval in propagation-based phase-contrast Imaging. **2022**,

720 Requirements and challenges for hybrid intelligence: A case-study in education. 5,

719 Smart Transportation Systems: Recent Developments, Current Challenges and Opportunities. **2022**, 116-143

718 Lévy flight and chaos theory based gravitational search algorithm for multilayer perceptron training. 0

717 Networked Knowledge and Complex Networks: An Engineering View. **2022**, 9, 1366-1383 0

716 A novel flexible model to calibrate single-layer height for ionospheric modelling using neural network model.

715	Spatiotemporal Reconstruction of Antarctic Near-Surface Air Temperature from MODIS Observations. **2022**, 35, 5537-5553	1
714	Model Based Demand Order Estimation by Using Optimal Architecture Artificial Neural Network with Metaheuristic Optimizations. 1277-1291	
713	Capsule networks for image classification: A review. **2022**, 509, 102-120	1
712	Application of multilayer perceptron with data augmentation in nuclear physics. **2022**, 128, 109470	0
711	Damage localization and characterization using one-dimensional convolutional neural network and a sparse network of transducers. **2022**, 115, 105273	
710	Digital twin and machine learning for decision support in thermal power plant with combustion engines. **2022**, 253, 109578	
709	Effect of different pitches on the 3D helically coiled shell and tube heat exchanger filled with a hybrid nanofluid: Numerical study and artificial neural network modeling. **2022**, 143, 755-768	1
708	A new approach for developing EPB-TBM disc cutter wear prediction equations in granite stratum using backpropagation neural network. **2022**, 128, 104654	0
707	Lifecycle assessment of diesel, diesel-electric and hydrogen fuel cell transit buses with fuel cell degradation and battery aging using machine learning techniques. **2022**, 259, 125003	1
706	Discrete fractional distributed Halanay inequality and applications in discrete fractional order neural network systems.	0
705	References. **2022**, 189-198	0
704	A hyper-heuristic based reinforcement-learning algorithm to train feedforward neural networks. **2022**, 101261	0
703	Prediction model of surface roughness of selective laser melting formed parts based on back propagation neural network.	0
702	Classification Of Mushrooms Using Artificial Neural Network.	0
701	Improvement of the three-dimensional fine-mesh flow field of proton exchange membrane fuel cell (PEMFC) using CFD modeling, artificial neural network and genetic algorithm. **2022**,	0
700	4 Ausblick: Die Schönheit des Denkens. **2022**, 269-278	0
699	4 Methode und Kapitelübersicht. **2022**, 21-24	0
698	3 Ideengeschichte Neuronaler Netzwerkmodelle. Übersetzungen und das Finden einer adäquaten symbolischen Sprache komplexer Prozesse. **2022**, 126-138	0

697	Study on Hopf Branch of Stability of Time-Delay Unified System and Performance Evaluation Based on Deep Learning. **2022**, 2022, 1-11	0
696	A novel model of the deep neural network approach in coal mining surface pattern to assess land use classification using remote sensing image.	0
695	Application of artificial intelligence-based single and hybrid models in predicting seepage and pore water pressure of dams: A state-of-the-art review. **2022**, 173, 103268	2
694	CoNN-IDS: Intrusion detection system based on collaborative neural networks and agile training. **2022**, 122, 102908	0
693	Flow and heat transfer optimization of a fin-tube heat exchanger with vortex generators using Response Surface Methodology and Artificial Neural Network. **2022**, 39, 102445	2
692	Hydrogeochemical characterization based water resources vulnerability assessment in India's first Ramsar site of Chilka lake. **2022**, 184, 114107	1
691	Artificial synapses enabled neuromorphic computing: From blueprints to reality. **2022**, 103, 107744	1
690	The value of cross-data set analysis for automobile insurance fraud detection. **2022**, 63, 101769	0
689	Fault-Tolerant Framework for State-of-Health Prediction of Lithium Batteries. **2022**, 37, 15528-15537	0
688	Double-machine-learning-based data-driven stochastic flow stress model for aluminium alloys at elevated temperatures. **2022**, 33, 104506	0
687	Deep Learning. **2023**, 431-456	0
686	Image inpainting based on deep learning: A review. **2023**, 90, 74-94	1
685	Deep learning for cell shape analysis. **2023**, 375-390	0
684	Multi-Objective Optimization of Petroleum Engineering Problems Using a Hybrid Workflow: Combination of Combination of Particle Swarm Optimization, Fuzzy Logic, Imperialist Competitive Algorithm and Response Surface Methodology.	0
683	Self-Organizing Maps. **2022**, 1-7	0
682	Waste Classification Using ANN, CNN And Transfer Learning.	0
681	Neural Networks. **2022**, 291-301	0
680	Two Decades of Bengali Handwritten Digit Recognition: A Survey. **2022**, 10, 92597-92632	1

679	Associative Memory Networks with Multidimensional Neurons. **2022**, 503-514	0
678	Tire Forces Estimation in Intelligent Tire. **2022**, 77-112	0
677	Applications of Kalman Filtering in Time Series Prediction. **2022**, 520-531	0
676	Using Artificial Neural Network Model for Berth Congestion Risk Prediction. **2022**, 55, 592-597	0
675	A Review of Spiking Neural Networks. **2022**, 144, 03004	0
674	A Critical Analysis into the Beneficial and Malicious Utilisations of Artificial Intelligence. **2022**, 81-99	0
673	Chronic kidney disease prediction with feature selection and extraction using machine learning. **2022**,	0
672	Machine Learning and Biomedical Sub-Terahertz/Terahertz Technology. **2022**, 199-239	1
671	Computational neuroscience and compartmental modeling. **2022**, 183-219	0
670	Machine learning of phase diagrams.	0
669	A Basic Compositional Model for Spiking Neural Networks. **2022**, 403-449	0
668	Multilayer Crossbar Array of Amorphous Metal-Oxide Semiconductor Thin Films for Neuromorphic Systems. **2022**, 10, 784-790	0
667	A systematic review of machine learning techniques for cattle identification: Datasets, methods and future directions. **2022**, 6, 138-155	0
666	Fault Detection and Isolation Based on Deep Learning for a Fresnel Collector Field. **2022**, 55, 563-568	0
665	The Organization and Improvement of Behavior. **2022**, 17-47	0
664	Extending Machine Learning Prediction Capabilities by Explainable Ai in Financial Time Series Prediction.	0
663	Parameter optimization and modelling of forward osmosis membrane separation process. **2022**, 185-206	0
662	Dealing With Inaccurate Sensor Data in the Context of Mobile Crowdsensing and Mhealth. **2022**, 1-12	0

661 A Bidirectional Deep Learning Approach for Designing MEMS Sensors. **2022**, 1-1 0

660 Regul□e Sprachen. **2022**, 27-89 0

659 Neural network modeling for the assessment of digital competencies of employees. **2022**, 0

658 Methodology for Ecological Analysis. **2022**, 33-54 0

657 Fuzzy fractional more sigmoid function activated neural network approximations revisited. **2022**, 0 10

656 Artificial neural network applied to the renewable energy system performance. **2022**, 11-43 0

655 Memory Consolidation: Neural Data Analysis and Mathematical Modeling. **2022**, 1-37 0

654 Machine Creativity. **2022**, 98-135 0

653 Oscillatory Dynamics in Complex Recurrent Neural Networks. **2022**, 17, 75-85 0

652 Modern aspects of informatization of agricultural production based on modeling and forecasting the production process of lentils under different conditions of moisture supply. **2022**, 89-96 0

651 RF-Analog Hybrid Circuitry Emulating Pyramidal Cell Neuronal Behavior. **2022**, 0

650 Turing Computation with Neural Networks Composed of Synfire Rings. **2022**, 0

649 Spiking Neural Networks Diagnosis of ADHD subtypes through EEG Signals Evaluation. **2022**, 0

648 From Ethical Artificial Intelligence Principles to Practice: A Case Study of University-Industry Collaboration. **2022**, 0

647 A Deep Learning Based Approach to Synthesize Intelligible Speech with Limited Temporal Envelope Information. **2022**, 0

646 Prediction of The Gleason Group of Prostate Cancer from Clinical Biomarkers: Machine and Deep Learning from Tabular Data. **2022**, 0

645 Derin □enme ile Dudak Okuma □erine Detayl□Bir Ara□□ma. **2022**, 14, 844-860 0

644 Multi-object Recognition Using a Feature Descriptor and Neural Classifier. 0

643	State Estimation Using Physics Constrained Neural Networks. **2022**,	0
642	Adaptive control of synaptic plasticity integrates micro- and macroscopic network function.	0
641	Deployment of A Fuel Oil Blending Viscosity Inferential A Comparison of Conventional and Machine Learning Models. **2022**,	0
640	Pre-Informing Methods for ANNs.	0
639	YOLO network-based drogue recognition method for autonomous aerial refueling. **2022**, 40, 787-795	0
638	Narx Neural Networks Models for Prediction of Standardized Precipitation Index in Central Mexico. **2022**, 13, 1254	0
637	Uncertainty Propagation Based MINLP Approach for Artificial Neural Network Structure Reduction. **2022**, 10, 1716	0
636	Modelling of foF2 using artificial neural network over Equatorial Ionization Anomaly (EIA) region stations. **2022**,	1
635	3 Vom Wahren und Wahrscheinlichen - Sozialstatistik. **2022**, 51-59	0
634	2 Formalisierung und Mathematisierung von Logik - Mathematische Logik im 19. Jahrhundert. **2022**, 42-51	0
633	Upscaling Shear Strength of Heterogeneous Oil Sands with Interbedded Shales Using Artificial Neural Network. **2022**, 1-17	0
632	Einleitung. **2022**, 185-186	0
631	1 Zeit der Übersetzungen. **2022**, 79-93	0
630	1 Mathematik und Naturerkenntnis. **2022**, 25-41	0
629	Inhalt. **2022**, 5-6	0
628	4 Neue Zeitlichkeit. **2022**, 169-172	0
627	2 Die Hirnforschung und die Mensch-Maschine-Allegorie. **2022**, 13-19	0
626	3 Kein freier Wille, nirgends. Warum Entscheiden nicht Wählen ist. **2022**, 264-269	0

625	Abbildungsverzeichnis. **2022**, 297-300	0
624	5 Mathematisierung des Labors und Laboratisierung von Gesellschaft. **2022**, 200-209	0
623	1 Ideengeschichte revisited. **2022**, 139-150	0
622	Development of a New Eco-Friendly Copolymer Based on Chitosan for Enhanced Removal of Pb and Cd from Water. **2022**, 14, 3735	0
621	How to incorporate biological insights into network models and why it matters.	0
620	Machine Learning Prediction of the Load Evolution in Three-Point Bending Tests of Marble. **2022**, 39, 2037-2045	0
619	Application of Big Data Technology and Visual Neural Network in Emotional Expression Analysis of Oil Painting Theme Creation in Public Environment. **2022**, 2022, 1-10	0
618	Comparative study of machine learning methods and GR2M model for monthly runoff prediction. **2022**, 101941	1
617	3 Die Mathematik als Fundament der Erkenntnisproduktion im Labor, ohne selbst eine Laborwissenschaft zu sein. **2022**, 191-193	0
616	1 Das Labor als spezifischer Ort der Erkenntnisproduktion. **2022**, 186-189	0
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598	2 Immer diese Widersprüche. Oder was es bedeutet, wenn Wissenschaftler*innen herausfinden wollen, warum die Patient*innen etwas anderes sagen als ihre Daten. **2022**, 256-263	0
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565	Novel Neuron-like Procedure of Weak Signal Detection against the Non-Stationary Noise Background with Application to Underwater Sound. **2022**, 14, 4860	0
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545	Artificial Intelligence approaches in drug discovery: Towards the laboratory of the future. **2022**, 22,	1
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543	General Multivariate Arctangent Function Induced Neural Network Approximations. **2023**, 143-176	1
542	Abstract Multivariate Gudermannian Function Induced Neural Network Approximations. **2023**, 177-203	1
541	Abstract Multivariate Algebraic Function Induced Neural Network Approximations. **2023**, 109-142	1
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538	Multivariate Fuzzy-Random and Stochastic Various Activation Functions Activated Neural Network Approximations. **2023**, 387-421	0
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536	Voronouskaya Univariate and Multivariate Asymptotic Expansions for Sigmoid Functions Induced Quasi-interpolation Neural Network Operators Revisited. **2023**, 275-304	1

535	Generalized Symmetrical Sigmoid Function Induced Banach Space Valued Ordinary and Fractional Neural Network Approximations. **2023**, 85-108	1
534	Methods used for handling and quantifying model uncertainty of artificial neural network models for air pollution forecasting. **2022**, 158, 105529	0
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518	Deep learning schemes for parabolic nonlocal integro-differential equations. **2022**, 3,	0

517	Machine Learning Using Neural Networks for Metabolomic Pathway Analyses. **2023**, 395-415	0
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511	Reconstructing partonic kinematics at colliders with machine learning. **2022**, 5,	0
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509	The viability of extended marine predators algorithm-based artificial neural networks for streamflow prediction. **2022**, 109739	7
508	Effect of smartphone use before bedtime on smartphone addiction behaviors among Chinese college students. 13,	0
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506	Which Technology is Right for Your Field? □Quantifying Technology Significance. **2022**,	0
505	Portable electronic nose system with elastic architecture and fault tolerance based on edge computing, ensemble learning, and sensor swarm. **2022**, 132925	1
504	Deep Learning Hybrid Techniques for Brain Tumor Segmentation. **2022**, 22, 8201	1
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499	Enhancing Slope Stability Prediction Using Fuzzy and Neural Frameworks Optimized by Metaheuristic Science.	0
498	Hybridized artificial neural network with metaheuristic algorithms for bearing capacity prediction. **2022**, 101980	0
497	ANN and SSO Algorithms for a Newly Developed Flexible Grid Trading Model. **2022**, 11, 3259	1
496	ACGAN: Age-compensated makeup transfer based on homologous continuity generative adversarial network model.	1
495	Innovative Analysis Ready Data (ARD) product and process requirements, software system design, algorithms and implementation at the midstream as necessary-but-not-sufficient precondition of the downstream in a new notion of Space Economy 4.0 - Part 2: Software developments. 1-119	1
494	Optimized Model Inputs Selections for Enhancing River Streamflow Forecasting Accuracy Using Different Artificial Intelligence Techniques.	0
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489	Relay System of Differential Equations with Delay as a Perceptron Model. **2023**, 530-539	0
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487	Analysis of Characteristic Factors of Nursing Safety Incidents in ENT Surgery by Deep Learning-Based Medical Data Association Rules Method. **2022**, 2022, 1-6	0
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485	First Report of the Detection of DENV1 in Human Blood Plasma with Near-Infrared Spectroscopy. **2022**, 14, 2248	0
484	Monitoring and Intelligent Management of Agrophytocenosis Productivity Based on Deep Neural Network Algorithms. **2023**, 686-694	0
483	When not to use machine learning: A perspective on potential and limitations.	3
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481	The Potential of Artificial Intelligence in the Development of (Equity) Crowdfunding. **2023**, 189-210	0
480	A Review of the Optimal Design of Neural Networks Based on FPGA. **2022**, 12, 10771	1
479	Predicting the Outcomes of Internet-Based Cognitive Behavioral Therapy for Tinnitus: Applications of Artificial Neural Network and Support Vector Machine. 1-11	0
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475	Settlements and angular distortions of shallow foundations on liquefiable soil.	0
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468	Comparative study of soft computing models for prediction of scour below two symmetric crossing jets. **2022**, 15,	0
467	Application of LSTM Based on the BAT-MCS for Binary-State Network Approximated Time-Dependent Reliability Problems. **2022**, 108954	0
466	Recognizing societal influences in earthquake geohazard risk perception with explainable AI while mitigating risks through improved seismic interpretation. **2022**, 41, 756-767	0
465	Reconstructing Computational Dynamics from Neural Measurements with Recurrent Neural Networks.	0
464	An application of Artificial Neural Network solution in the apparel industry for Job distribution to subcontractors. **2022**, 174, 103325	0

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462	Study on neutron–gamma discrimination method based on the KPCA-GMM-ANN. **2023**, 203, 110602	0
461	Innovative Analysis Ready Data (ARD) product and process requirements, software system design, algorithms and implementation at the midstream as necessary-but-not-sufficient precondition of the downstream in a new notion of Space Economy 4.0 - Part 1: Problem background in Artificial General Intelligence (AGI). 1-239	1
460	Introduction to Neural Interfaces. **2007**, 1-20	0
459	Training a multilayer neural network for the Euro-dollar (EUR/ USD) exchange rate. **2007**, 27, 106-117	0
458	Introduction. **2022**, 1-26	0
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454	AI in Medicine: Some Pertinent History. **2022**, 21-50	0
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451	A new family of Constitutive Artificial Neural Networks towards automated model discovery. **2023**, 403, 115731	0
450	Deep learning model for automated detection of efflorescence and its possible treatment in images of brick facades. **2023**, 145, 104658	1
449	Efficiency of Data-Driven Hybrid Algorithms for Steel-Column Base Connection Failure Mode Detection. **2023**, 28,	0
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447	Training an open quantum classifier. **2022**,	0
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445	Novel hybrid neuro-fuzzy model to anticipate the heat transfer in a heat exchanger equipped with a new type of self-rotating tube insert. **2022**, 45,	0
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443	Fortnet, a software package for training Behler-Parrinello neural networks. **2022**, 108580	0
442	Richards curve induced Banach space valued ordinary and fractional neural network approximation. **2023**, 117,	0
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436	Recent Advances at the Interface of Neuroscience and Artificial Neural Networks. **2022**, 42, 8514-8523	0
435	Photometric identification of compact galaxies, stars and quasars using multiple neural networks.	0
434	A Systematic Review of Traffic Incident Detection Algorithms. **2022**, 14, 14859	0
433	Memristive/CMOS Devices for Neuromorphic Applications. **2023**, 1167-1199	0
432	Prediction of Marshall Stability and Marshall Flow of Asphalt Pavements Using Supervised Machine Learning Algorithms. **2022**, 14, 2324	0
431	Data-driven neural networks for source localization and reconstruction using a planar array. 1475472X2211368	0
430	Predicting wave forces on coastal bridges using genetic algorithm enhanced ensemble learning framework. **2022**, 266, 112963	0
429	Response Surface Methodology and Artificial Neural Network modellings on hydraulic and thermal performances of a disk-shaped heat sink with tree-like microchannels. **2022**, 40, 102539	1
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427	Boolean Networks and Their Dynamics: The Impact of Updates. **2022**, 173-250	0
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424	Supervised machine learning to allocate emergency department resources in disaster situations. **2022**,	0
423	On Memristors for Enabling Energy Efficient and Enhanced Cognitive Network Functions. **2022**, 10, 129279-129312	3
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420	Neural Network Potentials for Chemistry: Concepts, Applications and Prospects.	0
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416	Metal bioleaching from printed circuit boards by bio-Fenton process: Optimization and prediction by response surface methodology and artificial intelligence models. **2023**, 326, 116797	0
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413	A systematic approach to optimization of ANN model parameters to predict flow boiling heat transfer coefficient in mini/micro-channel heatsinks. **2023**, 202, 123728	0
412	Hyper-sausage coverage function neuron model and learning algorithm for image classification. **2023**, 136, 109216	7
411	Prediction models for marshall mix parameters using bio-inspired genetic programming and deep machine learning approaches: A comparative study. **2023**, 18, e01774	0
410	Solving multi-objective optimization problem of convolutional neural network using fast forward quantum optimization algorithm: Application in digital image classification. **2023**, 176, 103370	1

409	The Ikshana Hypothesis of Human Scene Understanding. **2022**, 161-181	0
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407	StereoSpike: Depth Learning With a Spiking Neural Network. **2022**, 10, 127428-127439	0
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405	Review on recent trends and challenges in deep learning and artificial intelligence. **2022**,	0
404	Comparison of Active Metamodelling Techniques in Multidisciplinary Optimisation Frameworks. **2022**, 187-205	0
403	The Use of Deep Learning in the Classification of Buildings at the Post-revolutionary City of Athens. **2022**, 110-124	0
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397	Intelligence in Machines. **2023**, 65-88	0
396	Principles for the emergence of computational properties in a complex system. **2022**, 81, 1300-1313	0
395	Artificial Intelligence in Project Management: An Application in The Banking Sector. **2022**, 14, 323-334	0
394	Introduction. **2023**, 1-92	0
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391	Passive THz Radiometer Scanner Object Detection with Adaptive Filtering. **2022**,	0
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388	Computer Vision and Pattern Recognition for the Analysis of 2D/3D Remote Sensing Data in Geoscience: A Survey. **2022**, 14, 6017	2
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386	Optimization of Artificial Neural Networks using Wavelet Transforms. **2022**, 48, 376-384	0
385	An efficient estimation of crop performance in sheep fescue (Festuca ovina L.) using artificial neural network and regression models. **2022**, 12,	0
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383	Artificial Intelligence in Dermatology Image Analysis: Current Developments and Future Trends. **2022**, 11, 6826	1
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378	Machine learning for data integration in human gut microbiome. **2022**, 21,	1
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376	Artificial intelligence techniques for neuropathological diagnostics and research.	0
375	Karc□Sinir A□□□ Uygulamas□ve Performans Analizi.	0
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373	Improve medical IoT based on DFC algorithm and machine learning.	0
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365	Automated gender classification from handwriting: a systematic survey.	0
364	Analysis of Unconfined Compressive Strength of Rammed Earth Mixes Based on Artificial Neural Network and Statistical Analysis. **2022**, 15, 9029	0
363	Origin of the efficiency of spike timing-based neural computation for processing temporal information. **2022**,	0
362	A hybrid CFD–Deep Learning methodology for improving the accuracy of pressure drop prediction in cyclone separators. **2022**,	0
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359	Multi-modal and multi-model interrogation of large-scale functional brain networks.	0
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354	ANN/GA-ANN modeling study on operating parameter prediction for waste-to-energy plant.	0
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352	Comprehensive review on machine learning methodologies for modeling dye removal processes in wastewater. **2022**, 135522	0
351	Automated model discovery for skin: Discovering the best model, data, and experiment.	0
350	Enhancing cancer differentiation with synthetic MRI examinations via generative models: a systematic review. **2022**, 13,	1
349	Predicting Wheat Leaf Nitrogen Content by Combining Deep Multitask Learning and a Mechanistic Model Using UAV Hyperspectral Images. **2022**, 14, 6334	0
348	Artificial intelligence based prediction models for rubber compounds. **2022**,	0
347	Environmental and hydrologic controls on sediment and organic carbon export from a subalpine catchment: insights from a time series. **2022**, 19, 5591-5616	0
346	Richards curve induced Banach space valued multivariate neural network approximation.	0
345	Machine learning approaches for electroencephalography and magnetoencephalography analyses in autism spectrum disorder: A systematic review. **2022**, 110705	0
344	A rubric for human-like agents and NeuroAI. **2023**, 378,	0
343	Entering the new digital era of intensive care medicine: an overview of interdisciplinary approaches to use artificial intelligence for patients benefit. **2023**, 2, e0014	0
342	Patient Prediction Through Convolutional Neural Networks. **2022**, 19, 52-56	0
341	A computer vision-based system for recognition and classification of Urdu sign language dataset. 8, e1174	0
340	On the differences between periodic domain and fluidized bed. **2022**, 118395	0
339	Forecasting hourly foF2 over Sonmiani using an artificial neural network algorithm. **2022**,	0
338	An improved arithmetic optimization algorithm for training feedforward neural networks under dynamic environments. **2023**, 110274	0

337	An Approach to Generation Triggers for Parrying Backdoor in Neural Networks. **2023**, 304-314	0
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335	Estimations of the Ground-Level NO2 Concentrations Based on the Sentinel-5P NO2 Tropospheric Column Number Density Product. **2023**, 15, 378	0
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333	Celestial image classification based on deep learning and FGSM attack. **2023**,	0
332	Sentiment Analysis Applied to´IBOVESPA Prediction. **2022**, 373-388	0
331	Intelligent Computing: The Latest Advances, Challenges and Future.	0
330	Deep Convolutional Neural Networks for´Subgrid-Scale Flame Wrinkling Modeling. **2023**, 149-174	0
329	Effective short-term forecasts of Saudi stock price trends using technical indicators and large-scale multivariate time series. 9, e1205	0
328	Performance of different models in iron ore price prediction during the time of commodity price spike. **2023**, 80, 103237	0
327	Machine Learning and Health Care. Publish Ahead of Print,	0
326	The brain-computer analogy A special issue 10,	0
325	How can artificial neural networks approximate the brain?. 13,	0
324	Modulating brain integrative actions as a new perspective on pharmacological approaches to neuropsychiatric diseases. 13,	1
323	Classification of Some Barley Cultivars with Deep Convolutional Neural Networks. 262-271	0
322	Toward the third generation artificial intelligence. **2023**, 66,	0
321	Third-order motifs are sufficient to fully and uniquely characterize spatiotemporal neural network activity. **2023**, 13,	0
320	Critical assessment of synthetic accessibility scores in computer-assisted synthesis planning. **2023**, 15,	0

319	Memory, evolutionary operator, and local search based improved Grey Wolf Optimizer with linear population size reduction technique. **2023**, 110297	0
318	Signs of Interdisciplinarity in the Second Half of the XX Century and Prospects for the XXI Century. **2023**, 241-299	0
317	Hardware and System Security: Attacks and Countermeasures Against Hardware Trojans. **2023**, 501-549	0
316	Attractor separation and signed cycles in asynchronous Boolean networks. **2023**, 113706	0
315	Symmetrizable Boolean networks. **2023**,	0
314	GRU-Based Parameter-Efficient Epileptic Seizure Detection. **2023**, 73-86	0
313	Forecast combination approach with meta-fuzzy functions for forecasting the number of immigrants within the maritime line security project in Turkey.	0
312	Combining Artificial Neural Network and Driver□Pressure□State□Impact□Response Approach for Evaluating a Mediterranean Lake. **2023**, 15, 266	1
311	Neuromorphic Computing: A Path to Artificial Intelligence Through Emulating Human Brains. **2023**, 259-296	2
310	Application of artificial neural networks in reproductive medicine. 1-7	0
309	Machine learning-based analysis predicts a person's gender based on mechanical, but not thermal, pain thresholds.	0
308	Deep neural networks for estimation of temperature values for thermal ageing evaluation of nuclear power plant equipment. **2023**, 156, 104542	0
307	Novel mathematical and polypharmacology predictions of salicylsalicylic acid: Solubility enhancement through SCCO2 system. **2023**, 372, 121195	0
306	Optimal sampling-based neural networks for uncertainty quantification and stochastic optimization. **2023**, 133, 108109	0
305	A methods guideline for deep learning for tabular data in agriculture with a case study to forecast cereal yield. **2023**, 205, 107642	1
304	Non-destructive robotic sorting of cracked pistachio using deep learning. **2023**, 198, 112229	0
303	Weekly Power Generation Forecasting using Deep Learning Techniques: Case Study of a 1.5 MWp Floating PV Power Plant. **2022**,	0
302	Intelligent Forecast Model of Octane Number Loss Using BP Neural Network and Random Forests. **2022**,	0

301	A Review on Neural Network based Gait Estimation Methods. **2022**,	0
300	Use of Attention-Based Neural Networks to Short-Term Load Forecasting in the Republic of Panama. **2022**,	0
299	GeoAI for Disaster Mitigation: Fire Severity Prediction Models using Sentinel-2 and ANN Regression. **2022**,	0
298	Application of Neuro-Symbolic Reasoning in Natural Language Processing. **2022**,	0
297	Exploiting machine learning methods with monthly routine milk recording data and climatic information to predict subclinical mastitis in Italian Mediterranean buffaloes. **2022**,	0
296	Engagement Analysis Using DAiSEE Dataset. **2022**,	0
295	Artificial Intelligence for Clinical Research in Voice Disease. **2022**, 33, 142-155	0
294	Applications of Two Neuro-Based Metaheuristic Techniques in Evaluating Ground Vibration Resulting from Tunnel Blasting. **2023**, 11, 106	0
293	Optimized Skin Cancer Detection using Web Technology. **2022**,	0
292	Deep Learning-Based Miniaturized All-Dielectric Ultracompact Film Spectrometer. **2023**, 10, 225-233	0
291	Systematic Development of a Multi-Objective Design Optimization Process Based on a Surrogate-Assisted Evolutionary Algorithm for Electric Machine Applications. **2023**, 16, 392	0
290	Housing Demand Forecasting with Machine Learning Methods. **2022**, 15, 36-52	0
289	Impact of Dataset and Model Parameters on Machine Learning Performance for the Detection of GPS Spoofing Attacks on Unmanned Aerial Vehicles. **2023**, 13, 383	2
288	ANN-Based Assessment of Soft Surface Soil Layers Impact on Fault Rupture Propagation and Kinematic Distress of Gas Pipelines. **2023**, 8, 6	1
287	Machine Learning Approach for Rapid Estimation of Five-Day Biochemical Oxygen Demand in Wastewater. **2023**, 15, 103	0
286	N25P5K5 T Yeni Nesil Bir Bitki Besininin Kuruma Kineti hin Regresyon ve Makine enme Y temleri ile Belirlenmesi. 989-1004	0
285	On-Chip Photonic Synapses with All-Optical Memory and Neural Network Computation. **2023**, 14, 74	0
284	Neurodynamical Computing at the Information Boundaries of Intelligent Systems.	0

283	Introductory Review on All-Optical Machine Learning Leap in Photonic Integrated Circuits. **2022**, 31, 393-402	0
282	Textual Data Quality at Scale for High Dimensionality Data. **2022**,	0
281	Variable Selection and Oil-Gas-Bearing Evaluation Using Multicomponent Seismic Data and AMPSO-ML Approaches. **2023**, 1-19	0
280	Data-Driven Prediction of the Formation of Co-Amorphous Systems. **2023**, 15, 347	0
279	Ground motion model for Peninsular India using an artificial neural network. **2023**, 39, 596-633	0
278	Deep learning based identification of bone scintigraphies containing metastatic bone disease foci. **2023**, 23,	0
277	Computational imaging applications in brain and breast cancer. **2023**, 29-45	0
276	Efficient Method for Error Detection and Correction in In-Memory Computing Based on Reliable Ex-Logic Gates. 2200341	0
275	Machine Learning Prediction of the Long-Term Environmental Acoustic Pattern of a City Location Using Short-Term Sound Pressure Level Measurements. **2023**, 13, 1613	0
274	An Optimal Neural Network for Hourly and Daily Energy Consumption Prediction in Buildings. **2023**, 14, 1-13	0
273	Deep learning applied to detection of the vulnerable atherosclerotic plaque. **2023**, 63-83	0
272	Editorial: Functional microcircuits in the brain and in artificial intelligent systems. 17,	0
271	Artificial Intelligence Foundation of Smart Ocean. **2023**, 1-44	0
270	Neural Encoding and Decoding. **2023**, 2503-2526	0
269	Deep learning methods for analysis of neural signals: From conventional neural network to graph neural network. **2023**, 205-242	0
268	A framework coupled neural networks and SPH depth integrated model for landslide propagation warning.	0
267	Reliable organisms from unreliable components revisited: the linear drift, linear infinitesimal variance model of decision making.	0
266	Metalearning of time series: an approximate dynamic programming approach. 1-13	0

265	Artificial Neural Network to Predict Structure-based Protein-protein Free Energy of Binding from Rosetta calculated Properties.	0
264	Measuring code maintainability with deep neural networks. **2023**, 17,	0
263	Artificial Intelligence for Cancer Detection: A Bibliometric Analysis and Avenues for Future Research. **2023**, 30, 1626-1647	0
262	Prediction of Battery Remaining Life based on Sliding Window-LSTM for Camouflage Therapeutic System. **2023**, 21, 29-38	0
261	Estimation of tree height with machine learning techniques in coppice-originated pure sessile oak (Quercus petraea (Matt.) Liebl.) stands. 1-10	1
260	Artificial Intelligence: Definition and Background. **2023**, 15-41	0
259	CNN deep learning-based image to vector depiction.	0
258	Coupling machine learning with signal process techniques and particle swarm optimization for forecasting flood routing calculations in the Eastern Black Sea Basin, Türkiye.	0
257	Optimizing the placement of numerical relativity simulations using a mismatch predicting neural network. **2023**, 107,	0
256	Artificial intelligence in cardiovascular imaging. **2023**, 51-72	0
255	A Statistical Investigation of Dynamic Cone Penetrometer Test. **2023**, 9,	0
254	Machine learning approach for seismic assessment. **2023**, 237-247	0
253	The history of modern artificial intelligence. **2023**, 131-161	0
252	A Power-Efficient Neuromorphic Digital Implementation of Neural–Glial Interactions. **2023**, 13, 10	0
251	Machine learning to predict overall short-term mortality in cutaneous melanoma. **2023**, 14,	0
250	Identifying nonlinear Functional Connectivity with EEG/MEG using Nonlinear Time-Lagged Multidimensional Pattern Connectivity (nTL-MDPC).	0
249	Neural networks in phononics. **2023**, 47-70	0
248	Prediction and Comparison of Rainfall-Runoff Using Mathematical Model. **2023**, 1130, 012044	0

247	Evaluations on supervised learning methods in the calibration of seven-hole pressure probes. **2023**, 18, e0277672	0
246	Smart Irrigation Systems in Agriculture: A Systematic Review. **2023**, 13, 342	0
245	Multi-response optimization of process parameters for remediation of tetrachloroethylene pools by surfactants: Application of Taguchi design of experiment and Artificial Neural Network.	0
244	A hybrid CFD Deep Learning methodology to improve the accuracy of cut-off diameter prediction in coarse-grid simulations for cyclone separators. **2023**, 170, 106143	0
243	A neural network approach for the solution of Van der Pol-Mathieu-Duffing oscillator model.	0
242	A note on the complex and bicomplex valued neural networks. **2023**, 445, 127864	0
241	Recent advances in deep learning based computer vision. **2022**,	0
240	Research on classification and recognition method of plant leaves based on deep learning. **2022**,	0
239	Activation by Switch Unit of Opposite First Powers. **2022**,	0
238	AIXI, FEP-AI, and Integrated World Models: Towards a Unified Understanding of Intelligence and Consciousness. **2023**, 251-273	1
237	Reinforcing Artificial Neural Networks through Traditional Machine Learning Algorithms for Robust Classification of Cancer. **2023**, 75, 4293-4315	0
236	Study of Image Segmentation and Classification Methods for Climate Data Analysis. **2023**, 643-661	0
235	An Assessment of Crop-Specific Land Cover Predictions Using High-Order Markov Chains and Deep Neural Networks. **2023**, 1-21	0
234	Porous Molecular Materials. **2023**, 251-282	0
233	Brain-Inspired Remote Sensing Interpretation: A Comprehensive Survey. **2023**, 16, 2992-3033	0
232	Missing Traffic Data Imputation for Artificial Intelligence in Intelligent Transportation Systems: Review of Methods, Limitations, and Challenges. **2023**, 11, 34080-34093	0
231	Artificial Intelligence and Methods. **2023**, 9-28	0
230	Modified Whale Optimization Algorithm based ANN: a novel predictive model for RO desalination plant. **2023**, 13,	0

229	Deep learning for the design of phononic crystals and elastic metamaterials. **2023**, 10, 602-614	0
228	Dynamics and synchronization control of fractional conformable neuron system.	0
227	Recent advances in plant disease severity assessment using convolutional neural networks. **2023**, 13,	0
226	History of AI in Clinical Medicine. **2023**, 39-48	0
225	Unraveling surface-enhanced Raman spectroscopy results through chemometrics and machine learning: principles, progress, and trends.	0
224	Approximate solution for a fractional BVP under $$ Psi $$-Riemann□iouville operators via iterative method and artificial neural networks.	0
223	Predicting physiological responses of dairy cows using comprehensive variables. **2023**, 207, 107752	0
222	Machine learning light hypernuclei. **2023**, 1032, 122625	0
221	Forecasting Stock Market Indices Using the Recurrent Neural Network Based Hybrid Models: CNN-LSTM, GRU-CNN, and Ensemble Models. **2023**, 13, 4644	0
220	The Evryscope Fast Transient Engine: Real-time Detection for Rapidly Evolving Transients. **2023**, 265, 63	0
219	Parallel functional architectures within a single dendritic tree. **2023**, 42, 112386	0
218	Probe Microscopy is All You Need.	0
217	Catalytic Production of Biodiesel from Waste Cooking Oil in a Two-Phase Oscillatory Baffled Reactor: Deactivation Kinetics and ANN Modeling Study. **2023**, 100383	0
216	Performance comparison of multifractal techniques and artificial neural networks in the construction of investment portfolios. **2023**, 103814	0
215	Prediction of Static Liquefaction Susceptibility of Sands Containing Plastic Fines Using Machine Learning Techniques.	0
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213	Yearning for machine learning: applications for the classification and characterisation of senescence.	0
212	A Comprehensive Review on the Advancement of High-Dimensional Neural Networks in Quaternionic Domain with Relevant Applications.	0

211	Improving the prediction accuracy of small-strain shear modulus of granular soils through PSD: An investigation enabled by DEM and machine learning technique. **2023**, 157, 105355	0
210	Multi-objective optimization of petroleum engineering problems using a hybrid workflow: Combination of particle swarm optimization, fuzzy logic, imperialist competitive algorithm and response surface methodology. **2023**, 224, 211579	0
209	An adaptive neural fuzzy interface structure optimisation for prediction of energy consumption and airflow of a ventilation system. **2023**, 337, 120879	0
208	Machine learning approaches for underwater sensor network parameter prediction. **2023**, 144, 103139	0
207	Machine learning based age-authentication assisted by chemo-kinetics: Case study of strong-flavor Chinese Baijiu. **2023**, 167, 112594	0
206	Data-driven analysis on the subbase strain prediction: A deep data augmentation-based study. **2023**, 40, 100957	0
205	Determining human-coronavirus protein-protein interaction using machine intelligence. **2023**, 18, 100228	0
204	Evaluation of Various Machine Learning Methods to Predict Istanbul□ Freshwater Consumption. **2023**, 10, 1-11	0
203	Machine learning insight into h-BN growth on Pt(111) from atomic states. **2023**, 621, 156893	0
202	Terramechanics models augmented by machine learning representations. **2023**, 107, 75-89	0
201	A hyper parameterized artificial neural network approach for prediction of the factor of safety against liquefaction. **2023**, 319, 107109	0
200	DNN-HDG: A deep learning hybridized discontinuous Galerkin method for solving some elliptic problems. **2023**, 151, 656-669	0
199	Towards a data privacy-predictive performance trade-off. **2023**, 223, 119785	0
198	Appraisal of energy loss reduction in green buildings using large-scale experiments compiled with swarm intelligent solutions. **2023**, 57, 103215	0
197	Optimal design of circular concrete-filled steel tubular columns based on a combination of artificial neural network, balancing composite motion algorithm and a large experimental database. **2023**, 223, 119940	0
196	LOSN: Lightweight ore sorting networks for edge device environment. **2023**, 123, 106191	0
195	A novel approach based on neural network to model the free convection within a differentially heated cavity partitioned by interior curved slats. **2023**, 189, 108281	0
194	Time-series clustering and forecasting household electricity demand using smart meter data. **2023**, 9, 4111-4121	0

193	Artificial Neural Networks and Data Science. **2022**, 899-921	0
192	Deep learning-based path computation without routing convergence in optical satellite networks.	0
191	A comprehensive review on modelling the adsorption process for heavy metal removal from water using artificial neural network technique. **2023**, e15455	0
190	Automated model discovery for skin: Discovering the best model, data, and experiment. **2023**, 410, 116007	0
189	Novel groundtruth transformations for the aesthetic assessment problem. **2023**, 60, 103368	0
188	Deep learning for intra-hour solar forecasting with fusion of features extracted from infrared sky images. **2023**, 95, 42-61	0
187	Experimental study and machine learning prediction on compressive strength of spontaneous-combustion coal gangue aggregate concrete. **2023**, 71, 106518	0
186	Künstliche Intelligenz. **2022**, 177-261	0
185	A deep spatiotemporal approach in maritime accident prediction: A case study of the territorial sea of South Korea. **2023**, 270, 113565	0
184	Using binary-stiffness beams within mechanical neural-network metamaterials to learn. **2023**, 32, 035015	0
183	Deep learning: A primer for dentists and dental researchers. **2023**, 130, 104430	0
182	Exponential Stability of Hopfield Neural Network Model with Non-Instantaneous Impulsive Effects. **2023**, 12, 115	0
181	To the Justification of the Effectiveness of Future Mathematics in the New Biology. **2022**, 29, 500-507	0
180	Bow-tie architectures in biological and artificial neural networks: Implications for network evolution and assay design. **2023**, 26, 106041	0
179	A robust training of dendritic neuron model neural network for time series prediction.	1
178	Weightless Neural Networks for Efficient Edge Inference. **2022**,	0
177	A novel model of the deep neural network approach in coal mining surface pattern to assess land use classification using remote sensing image.	0
176	A Deep Spatiotemporal Approach in Maritime Accident Prediction: A Case Study of the Territorial Sea of South Korea.	0

175	Elucidating the functional roles of prokaryotic proteins using big data and artificial intelligence. **2023**, 47,	0
174	Constitutive Model of TNM Alloy Using Arrhenius-Type Model and Artificial Neural Network Model. **2023**, 2437, 012062	0
173	Short-Term Air Pollution Forecasting Using Embeddings in Neural Networks. **2023**, 14, 298	0
172	Neuromorphic Circuits and Systems: From Neuron Models to Integrate-and-Fire Arrays. **2023**, 1455-1480	0
171	Effect of sugarcane bagasse and alumina reinforcements on physical, mechanical, and thermal characteristics of epoxy composites using artificial neural networks and response surface methodology.	0
170	Industry 5.0 or industry 4.0S? Introduction to industry 4.0 and a peek into the prospective industry 5.0 technologies. **2023**, 17, 947-979	0
169	Development of Forecasting Model for Machine Learning-Based Landfill Leachate Generation Using Linear Interpolation. **2023**, 45, 11-20	0
168	Penetration recognition based on machine learning in arc welding: a review. **2023**, 125, 3899-3923	0
167	Neural Architecture Search Survey: A Computer Vision Perspective. **2023**, 23, 1713	2
166	A multi-fidelity model management framework for multi-objective aerospace design optimisation. 2,	0
165	Artificial General Intelligence and Noncomputability: A Dynamical Framework. **2023**, 10, 71-101	0
164	A Survey of Recent Advances in Quantum Generative Adversarial Networks. **2023**, 12, 856	1
163	Interpretations of Innovation: The Role of Technology in Explanation Seeking Related to Psychosis. **2023**, 2023, 1-16	0
162	Fault prediction using fuzzy convolution neural network on IoT environment with heterogeneous sensing data fusion. **2023**, 26, 100701	0
161	Machine learning and deep learning in medicine and neuroimaging.	0
160	Deep learning for studying drawing behavior: A review. 14,	0
159	Computational interpretability of multilayer preceptron used for SAR image target recognition. **2021**,	0
158	Artificial Intelligence and Machine Learning Applications in Vaccine Development. **2023**, 233-253	0

157	New insight into the prediction of strength properties of cementitious mortar containing nano- and micro-silica based on porosity using hybrid artificial intelligence techniques.	0
156	A review: state estimation based on hybrid models of Kalman filter and neural network. **2023**, 11,	0
155	A survey on applications of machine learning algorithms in water quality assessment and water supply and management. **2023**, 23, 895-922	0
154	Automatic Cattle Identification using YOLOv5 and Mosaic Augmentation: A Comparative Analysis. **2022**,	0
153	Prostate Cancer Diagnosis from Structured Clinical Biomarkers with Deep Learning. **2022**,	0
152	Neural Logic Circuits: An evolutionary neural architecture that can learn and generalize. **2023**, 265, 110379	0
151	DSPS: Differentiable stellar population synthesis. **2023**, 521, 1741-1756	0
150	Pluralist neurophenomenology: a reply to Lopes.	0
149	Neural network system for recognition and visualization of problem areas of crops in precision farming: justification of application and aspects of implementation. **2023**, 1138, 012017	0
148	Management of Setpoint Behavior. **2022**, 267-295	0
147	Synaptic Resistor Circuits Based on Al Oxide and Ti Silicide for Concurrent Learning and Signal Processing in Artificial Intelligence Systems. 2210484	0
146	Fault Diagnosis Techniques for Nuclear Power Plants: A Review from the Artificial Intelligence Perspective. **2023**, 16, 1850	0
145	Machine learning and deep learning: A review for ecologists. **2023**, 14, 994-1016	0
144	Sensor Fusion. **2023**, 1-15	0
143	Advances in Diagnosis, Therapy, and Prognosis of Coronary Artery Disease Powered by Deep Learning Algorithms. **2023**, 3, 1-14	1
142	Machine Learning for Perovskite Solar Cells and Component Materials: Key Technologies and Prospects. 2214271	0
141	Uncomputabilities, Games, Axioms, Proofs and Artificial Intelligence. **2023**, 13-26	0
140	Impacts of building load dispersion level on its load forecasting accuracy: Data or algorithms? Importance of reliability and interpretability in machine learning. **2023**, 285, 112896	0

139	Experimental and ANN-based model of footing pressure of a layered soil reinforced with geogrid. **2023**, 8,	0
138	Neural networks to retrieve in water constituents applied to radiative transfer models simulating coastal water conditions. 4,	0
137	Structure and performance of fully connected neural networks: Emerging complex network properties. **2023**, 615, 128585	1
136	Machine learning estimation of crude oil viscosity as function of API, temperature, and oil composition: Model optimization and design space. **2023**, 18, e0282084	0
135	Mostar Index of Neural Networks and Applications. **2023**, 11, 21345-21353	0
134	Forecasting cryptocurrency returns with machine learning. **2023**, 64, 101905	0
133	Performance of Deep Learning Techniques for Forecasting PV Power Generation: A Case Study on a 1.5 MWp Floating PV Power Plant. **2023**, 16, 2119	0
132	Abstract Univariate Neural Network Approximation Using a q-Deformed and □Parametrized Hyperbolic Tangent Activation Function. **2023**, 7, 208	0
131	An Evaluation of ´Machine Learning Methods for ´Classifying Bot Traffic in ´Software Defined Networks. **2023**, 979-991	0
130	Non-destructive evaluation and fast conductivity calculation of various nanowire-based thin films with artificial neural network aided THz time-domain spectroscopy. **2023**, 31, 10657	0
129	The future of integrative neuroscience: The big questions. 17,	0
128	Does Deep Learning Have Epileptic Seizures? On the Modeling of the Brain.	0
127	A hybrid approach to enhancing the performance of manufacturing organizations by optimal sequencing of value stream mapping tools.	0
126	Development of a machine learning-based predictive model for prediction of success or failure of medical management for benign prostatic hyperplasia. **2023**, 42, 707-717	0
125	Deep learning hybrid for X-ray lung disease detection. **2022**,	0
124	Evaluating Designs for Hyperparameter Tuning in Deep Neural Networks. **2023**, 1-8	0
123	Disease Detection of Plants using Deep Learning Approach□A Review. **2022**,	0
122	DFT-aided machine learning-based discovery of magnetism in Fe-based bimetallic chalcogenides. **2023**, 13,	0

121	An Efficient Framework to Detect Intracranial Hemorrhage Using Hybrid Deep Neural Networks. **2023**, 13, 400	0
120	TRACING THE ADVANCEMENTS IN ARTIFICIAL INTELLIGENCE: DRAWING LESSONS FOR TOMORROW. 1883-1896	0
119	Comparative Analysis of the Implementation of Support Vector Machines and Long Short-Term Memory Artificial Neural Networks in Municipal Solid Waste Management Models in Megacities. **2023**, 20, 4256	0
118	Forecasting demand in the residential construction industry using machine learning algorithms in Jordan.	0
117	Comparison of Various CNN Models for Image Classification. **2023**, 31-43	0
116	Introduction to Non-Invasive Biomedical Signals for Healthcare. **2023**, 1-24	0
115	Data-driven strategies for the computational design of enzyme thermal stability: trends, perspectives, and prospects. **2023**,	0
114	What Really Matters is not just Knowing “What”, “Where” and “When” but also Knowing “How” **2023**, 19-31	0
113	Analysis of oscillating processes in spiking neural networks.	0
112	Deep learning - cancer genetics and application of deep learning to cancer oncology. **2022**, 60, 885-928	0
111	Artificial intelligence and machine learning in pain research: a data scientometric analysis. **2022**, 7, e1044	1
110	Thinking about Cognitive Scientists Thinking about Religion. **2023**, 328-350	0
109	Predictive modeling of tool wear in rotary tool micro-ultrasonic machining. 095440892311592	0
108	In silico approaches for carbohydrates. **2023**, 129-155	0
107	Benchmarking framework for machine learning classification from fNIRS data. 4,	0
106	Metaheuristics for optimizing weights in neural networks. **2023**, 359-377	0
105	Unconventional computing based on magnetic tunnel junction. **2023**, 129,	0
104	Application of artificial neural networks and partial least squares regression to predict irrigated land soil salinity in the Rift Valley Region, Ethiopia. **2023**, 46, 101354	0

103	FPGA-based implementation of deep neural network using stochastic computing. **2023**, 137, 110166	0
102	A Dendritic Neuron Model Optimized by Meta-Heuristics with a Power-Law-Distributed Population Interaction Network for Financial Time-Series Forecasting. **2023**, 11, 1251	0
101	Experimental characterisation and data-driven modelling of unsteady wall pressure fields induced by a supersonic jet over a tangential flat plate. **2023**, 958,	0
100	A Review on Vibration Control Strategies Using Magnetorheological Materials Actuators: Application Perspective. **2023**, 12, 113	0
99	An efficient, lightweight MobileNetV2-based fine-tuned model for COVID-19 detection using chest X-ray images. **2023**, 20, 8400-8427	0
98	Global Asymmetries in the Influence of ENSO on Flood Risk Based on 1,600 Years of Hybrid Simulations. **2023**, 50,	0
97	Electromyography Gesture Model Classifier for Fault-Tolerant-Embedded Devices by Means of Partial Least Square Class Modelling Error Correcting Output Codes (PLS-ECOC). **2023**, 16, 149	0
96	Temporal Peak-Management and Clustering System for Sustainable Learning With Application to the Excimer Laser Annealing Process. **2023**, 11, 24535-24544	0
95	A Brief Tour of Deep Learning from a Statistical Perspective. **2023**, 10, 219-246	0
94	A review of dynamics analysis of neural networks and applications in creation psychology. **2023**, 31, 2595-2625	0
93	Turing and Von Neumann: From Logic to the Computer. **2023**, 8, 22	0
92	Hydrometer Design Based on Thin-Film Resistive Sensor for Water Measurement in Residential Buildings. **2023**, 15, 1045	0
91	Big Data in Stroke: How to Use Big Data to Make the Next Management Decision.	0
90	Life as a Cyber-Bio-Physical System. **2023**, 167-200	0
89	Metaphor research as a research strategy in social sciences and humanities.	0
88	2D-Material-Based Volatile and Nonvolatile Memristive Devices for Neuromorphic Computing. **2023**, 5, 1109-1135	0
87	A Prediction Model and Factor Importance Analysis of Multiple Measuring Points for Concrete Face Rockfill Dam during the Operation Period. **2023**, 15, 1081	0
86	Analyzing the unrestricted web: The finnish corpus of online registers. 1-31	0

85	A survey of fatigue measures and models. 154851292311585	0
84	The Impact of Artificial Intelligence in the Odyssey of Rare Diseases. **2023**, 11, 887	0
83	Intelligent interpretation of the astronomical UIE bands: the spectra similarity. 1-16	0
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