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2237	Learning approach to optical tomography. 2015 , 2, 517		
2236	References. 379-399		
2235	.		
2234	World-centered representation for neural networks.		
2233	.		1
2232	Retrieval of canopy structural parameters from multiangle observations using an artificial neural network.		
2231	Properties of a chaotic network separating memory patterns.		
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2229	A biocybernetic simulation of speech perception by humans and animals.		0
2228	.		
2227	A Connectionist Machine for Genetic Hillclimbing. 1987 ,		270
2226	How brains make chaos in order to make sense of the world. 1987 , 10, 161-173		1692
2225	Stochastic Dynamics of a Layered Neural Network; Exact Solution. 1987 , 4, 645-650		16
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2223	Chaotic dynamics in brain activity. 1987 , 10, 173-174		2
2222	Spatial analysis of brain function:Not the first. 1987 , 10, 175-175		

2221	Can brains make psychological sense of neurological data?. 1987 , 10, 175-176	1
2220	On the differences between cognitive and noncognitive systems. 1987 , 10, 177-178	1
2219	The virtues of chaos. 1987 , 10, 178-179	5
2218	Stable self-organization of sensory recognition codes: Is chaos necessary?. 1987 , 10, 179-180	1
2217	Is chaos the only alternative to rigidity?. 1987 , 10, 180-180	
2216	Chaos in brains: Fad or insight?. 1987 , 10, 180-181	2
2215	Connectionist models as neural abstractions. 1987 , 10, 181-182	2
2214	Chaos can be overplayed. 1987 , 10, 182-183	2
2213	Cognition as selforganizing process. 1987 , 10, 183-183	2
2212	Physiology: Is there any other game in town?. 1987 , 10, 183-195	2
2211	Chaos, symbols, and connectionism. 1987 , 10, 174-175	
2210	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
2209	Learning translation invariant recognition in a massively parallel networks. 1987 , 1-13	60
2208	Influence of noise on the function of a "physiological" neural network. 1987 , 56, 313-27	64
2207	Learning sets of filters using back-propagation. 1987 , 2, 35-61	73
2206	. 1988 , 21, 65-75	136
2205	Feedback-error-learning neural network for trajectory control of a robotic manipulator. 1988 , 1, 251-265	270
2204	Neural networks: A biased overview. 1988 , 51, 743-775	22

2203	Training the brain using neural-network models. <i>Nature</i> , 1988 , 333, 401	50.4	4
2202	Neurocomputing neurons as microcomputers. 1988 , 4, 39-51		1
2201	Self-organizing feature maps and the travelling salesman problem. 1988 , 1, 289-293		261
2200	Auto-encoding with entropy constraints. 1988 , 1, 207		
2199	. 1988 ,		111
2198	Visual control of autonomous mobile robot based on self-organizing model for pattern learning. 1988 , 5, 453-470		8
2197	. 1988 , 76, 680-692		32
2196	Statistical Mechanics of Neural Computation. 1988 , 2, 54-62		2
2195	. 1988 ,		85
2194	. 1988 ,		28
2193	.		1
2192	Application Of Neural Networks To Adaptive Control.		2
2191	Neural networks and expectation of VLSI implementation. 1988 ,		
2190	.		19
2189	.		28
2188	.		1
2187	. 1988 ,		6
2186	Logical neurons: the enigmatic legacy of Warren McCulloch. 1988 , 11, 9-12		40

2185	.	
2184	Synthesizing a color algorithm from examples. 1988 , 239, 482-5	81
2183	.	2
2182	Iterated learning in a layered feed-forward neural network. 1988 , 37, 2660-2668	14
2181	An intelligent visual feedback system for robotic manipulators.	1
2180	Adaptation and learning in control of voluntary movement by the central nervous system. 1988 , 3, 229-249	64
2179	.	0
2178	Reductionism, Connectionism, and the Plasticity of Human Consciousness. 1988 , 1, 29-45	1
2177	A Self-learning Robot Vision System.	
2176	Massively parallel implementations of theories for apparent motion. 1988 , 3, 15-44	14
2175	Computational neuroscience. 1988 , 241, 1299-306	333
2174	Principal Components Analysis Of Images Via Back Propagation. 1988 , 1001, 1070	31
2173	Neural Networks: A New Approach To Pattern Recognition. 1988 ,	0
2172	Neural nets. 1988 , 21, 365-427	60
2171	Connectionism and physiological psychology: A marriage made in heaven?. 1988 , 1, 359-372	
2170	Synthesizing a color algorithm from examples. 1988 , 239, 482-485	102
2169	Local Computations with Probabilities on Graphical Structures and Their Application to Expert Systems. 1988 , 50, 157-194	257
2168	Finite State Automata and Simple Recurrent Networks. 1989 , 1, 372-381	322

2167	. 1989,	12
2166	Neural Computers. 1989,	15
2165	Statistical mechanics of stereoscopic vision. 1989, 40, 3983-3997	8
2164	.	5
2163	Asymptotic Convergence of Backpropagation. 1989, 1, 382-391	27
2162	. 1989,	8
2161	.	0
2160	.	
2159	. 1989,	1
2158	. 1989,	11
2157	.	
2156	.	2
2155	. 1989,	12
2154	.	
2153	. 1989,	15
2152	.	3
2151	. 1989,	5
2150	.	0

2149	. 1989,	6
2148	. 1989,	16
2147	A Multiple-Map Model for Pattern Classification. 1989, 1, 104-115	5
2146	Microstimulation of a neural-network model for visually guided saccades. 1989, 1, 317-26	31
2145	A neural network for probabilistic information retrieval. 1989,	26
2144	Deterministic Boltzmann Learning Performs Steepest Descent in Weight-Space. 1989, 1, 143-150	107
2143	The artificial intelligence of urban dynamics: Neural network modeling of urban structure. 1989, 67, 43-53	11
2142	On limits to perception and pattern recognition. 1989, 51, 681-6	
2141	Context-dependent associations in linear distributed memories. 1989, 51, 195-205	31
2140	A neural network simulator for supercomputers. 1989, 21, 225-239	0
2139	Connectionist architectures for triggering and track reconstruction. 1989, 57, 472-475	1
2138	. 1989, 5, 20-24	28
2137	. 1989, 36, 846-857	17
2136	A parallel network that learns to play backgammon. 1989, 39, 357-390	63
2135	Connectionist learning procedures. 1989, 40, 185-234	811
2134	Neural networks as content addressable memories and learning machines. 1989, 56, 43-50	
2133	Relaxation and neural learning: Points of convergence and divergence. 1989, 6, 217-244	22
2132	Syntactic category disambiguation with neural networks. 1989, 3, 203-217	11

2131	Topology-conserving maps for learning visuo-motor-coordination. 1989 , 2, 159-168	211
2130	Adaptive neural oscillator using continuous-time back-propagation learning. 1989 , 2, 375-385	100
2129	A neural network approach to character recognition. 1989 , 2, 387-393	78
2128	Optimal unsupervised learning in a single-layer linear feedforward neural network. 1989 , 2, 459-473	986
2127	Computations in massively parallel networks based on the Boltzmann machine: A review. 1989 , 9, 129-145	14
2126	Odour-sensing system using a quartz-resonator sensor array and neural-network pattern recognition. 1989 , 18, 291-296	99
2125	Self-organizing semantic maps. 1989 , 61, 241-254	428
2124	A benchmark for how well neural nets generalize. 1989 , 61, 303-313	6
2123	Function of identified interneurons in the leech elucidated using neural networks trained by back-propagation. <i>Nature</i> , 1989 , 340, 468-71	50.4 47
2122	On limits to perception and pattern recognition. 1989 , 51, 681-686	
2121	.	1
2120	. 1989 ,	12
2119	.	5
2118	A neural network for probabilistic information retrieval. 1989 , 23, 21-30	8
2117	. 1989 , 37, 328-339	1168
2116	. 1989 , 37, 1888-1898	61
2115	. 1989 , 11, 304-314	36
2114	. 1989 ,	33

2113	. 1989,	4
2112	A simple neuron feature detection.	
2111	. 1989,	25
2110	An electronic neurocomputer using general purpose floating point digital signal processors.	0
2109	.	
2108	Neural network models for promoter recognition. 1989, 6, 1123-33	38
2107	. 1989,	108
2106	.	16
2105	.	0
2104	.	7
2103	.	2
2102	.	2
2101	Real Time Suited Road Border Recognition Utilizing a Neural Network Technique.	1
2100	Protein secondary structure prediction with a neural network. 1989, 86, 152-6	380
2099	Quantitative Modeling of Synaptic Plasticity. 1989, 23, 1-30	1
2098	Enhancement of optical correlation system performance utilizing a neural-network-based preprocessor filter. 1990, 1246, 315	
2097	Image processing: a neural network approach to 2-D Kalman filtering. 1990,	
2096	Review: The Multiplicity of Dreams: Memory, Imagination and Consciousness, Parallel Models of Associative Memory. 1990, 19, 831-832	

2095	Neural implementation of a method for solving systems of linear equations. 1990 , 1, 217-229	0
2094	What connectionist models learn: Learning and representation in connectionist networks. 1990 , 13, 471-489	144
2093	Relatively local neurons in a distributed representation: A neurophysiological perspective. 1990 , 13, 489-491	1
2092	What connectionists learn: Comparisons of model and neural nets. 1990 , 13, 491-492	
2091	Representational systems and symbolic systems. 1990 , 13, 492-493	
2090	Connectionism and classical computation. 1990 , 13, 493-494	2
2089	Are connectionist models just statistical pattern classifiers?. 1990 , 13, 494-495	
2088	Expose hidden assumptions in network theory. 1990 , 13, 495-496	25
2087	But what is the substance of connectionist representation?. 1990 , 13, 496-497	
2086	A non-empiricist perspective on learning in layered networks. 1990 , 13, 497-498	33
2085	How connectionist models learn: The course of learning in connectionist networks. 1990 , 13, 498-499	1
2084	What can psychologists learn from hidden-unit nets?. 1990 , 13, 499-500	1
2083	Approaches to learning and representation. 1990 , 13, 500-501	
2082	Toward a unification of conditioning and cognition in animal learning. 1990 , 13, 501-502	
2081	Keeping representations at bay. 1990 , 13, 502-503	1
2080	Learning from learned networks. 1990 , 13, 503-504	2
2079	Realistic neural nets need to learn iconic representations. 1990 , 13, 505-505	
2078	There is more to learning than meeth the eye (or ear). 1990 , 13, 506-507	2

2077	Problems of extension, representation, and computational irreducibility. 1990 , 13, 507-508	3
2076	Connectionist models: Too little too soon?. 1990 , 13, 508-509	
2075	Advances in neural network theory. 1990 , 13, 509-509	
2074	Connectionist models learn what?. 1990 , 13, 509-510	
2073	Connectionist learning and the challenge of real environments. 1990 , 13, 510-511	
2072	Learning and representation: Tensions at the interface. 1990 , 13, 511-518	1
2071	On learnability, empirical foundations, and naturalness. 1990 , 13, 501-501	1
2070	The analysis of the learning needs to be deeper. 1990 , 13, 505-506	2
2069	From private attitude to public opinion: A dynamic theory of social impact.. 1990 , 97, 362-376	539
2068	Convergence of back-propagation in neural networks using a log-likelihood cost function. 1990 , 26, 1964	28
2067	A network that learns to recognize three-dimensional objects. <i>Nature</i> , 1990 , 343, 263-6	50.4 823
2066	. 1990 , 37, 1436-1440	3
2065	. 1990 , 37, 1440-1444	5
2064	Data compression of the ECG using neural network for digital Holter monitor. 1990 , 9, 53-7	37
2063	Discussion: McCulloch-Pitts and related neural nets from 1943 to 1989. 1990 , 52, 73-97	5
2062	A connectionist approach to the recognition of trends in time-ordered medical parameters. 1990 , 32, 53-62	3
2061	Applications for neural networks in chemistry. 2. A general connectivity representation for the prediction of regiochemistry. 1990 , 3, 163-174	12
2060	MSnet: A Neural Network which Classifies Mass Spectra. 1990 , 3, 213-237	93

2059	Identification capability of odor sensor using quartz-resonator array and neural-network pattern recognition. 1990 , 1, 473-476	91
2058	A stochastic version of the delta rule. 1990 , 42, 265-272	24
2057	Stability of neural networks and convergence of their sensitivity computation algorithms. 1990 , 21, 82-88	
2056	Connectionist representation, semantic compositionality, and the instability of concept structure. 1990 , 52, 253-270	19
2055	Networks and the best approximation property. 1990 , 63, 169-176	526
2054	Trajectory formation of arm movement by cascade neural network model based on minimum torque-change criterion. 1990 , 62, 275-88	201
2053	Applicability of quadratic and threshold models to motion discrimination in the rabbit retina. 1990 , 64, 41-9	13
2052	Learning algorithms for neural networks with the Kalman filters. 1990 , 3, 305-319	35
2051	McCulloch-Pitts and related neural nets from 1943 to 1989. 1990 , 52, 73-97	8
2050	Linear programming and simple associative memories. 1990 , 40, 203-214	4
2049	Intracellular signalling as a parallel distributed process. 1990 , 143, 215-31	113
2048	On-line prediction of fermentation variables using neural networks. 1990 , 36, 1041-8	152
2047	Preface to the special issue on connectionist symbol processing. 1990 , 46, 1-4	47
2046	Mapping part-whole hierarchies into connectionist networks. 1990 , 46, 47-75	273
2045	On the nature of explanation: A PDP approach. 1990 , 42, 281-292	3
2044	Selectionist models of perceptual and motor systems and implications for functionalist theories of brain function. 1990 , 42, 347-364	10
2043	Adaptive stochastic cellular automata: Theory. 1990 , 45, 159-180	13
2042	Recognition of isolated words based on psychoacoustics and neurobiology. 1990 , 9, 35-40	15

2041	Chaotic neural networks. 1990 , 144, 333-340	897
2040	Linear programming algorithm for neural networks. 1990 , 3, 575-582	15
2039	Image processing and pattern recognition in ultrasonograms by backpropagation. 1990 , 3, 593-603	35
2038	Constructing a generalizer superior to NETtalk via a mathematical theory of generalization. 1990 , 3, 445-452	19
2037	A time-delay neural network architecture for isolated word recognition. 1990 , 3, 23-43	327
2036	A protein structure predictor based on an energy model with learned parameters. 1990 , 3, 129-141	13
2035	Multichannel taste sensor using lipid membranes. 1990 , 2, 205-213	159
2034	Learning and optimization. 1990 , 121-136	1
2033	CONNECTIONIST LEARNING PROCEDURES ¹¹ This chapter appeared in Volume 40 of Artificial Intelligence in 1989, reprinted with permission of North-Holland Publishing. It is a revised version of Technical Report CMU-CS-87-115, which has the same title and was prepared in June 1987 while the author was at Carnegie Mellon University. The research was supported by contract N00014-86-K-00167 from the Office of Naval Research and by grant IST-8520359 from the National Science Foundation.. 1990 , 555-610	41
2032	Phoneme Recognition Using Time-Delay Neural Networks. 1990 , 393-404	46
2031	Feed-forward networks composed by neurons with activation functions of different parity. 1990 , 23, 5045-5060	
2030	Dynamics and storage capacity of neural networks with sign-constrained weights. 1990 , 237-252	1
2029	Experimental Demonstration of Optical Three-Layer Neural Network. 1990 , 29, L1565-L1568	8
2028	A Convergence Theorem for Sequential Learning in Two-Layer Perceptrons. 1990 , 11, 487-492	85
2027	Convergence of recursive associative memories obtained using the multilayered perceptron. 1990 , 23, 4039-4053	3
2026	Derivation of Linear Hebbian Equations from a Nonlinear Hebbian Model of Synaptic Plasticity. 1990 , 2, 321-333	28
2025	Faster Learning for Dynamic Recurrent Backpropagation. 1990 , 2, 270-273	21
2024	Prediction of the disulfide-bonding state of cysteine in proteins. 1990 , 3, 667-72	74

2023 .		24
2022	Neural networks for bond rating improved by multiple hidden layers. 1990,	31
2021 .		2
2020 .		
2019	Linear programming and associative memory matrices. 1990,	
2018 .		7
2017	Phoneme-based word recognition by neural network-a step toward large vocabulary recognition. 1990,	0
2016 .		1
2015 .		2
2014	A fast learning technique for the multilayer perceptron. 1990,	2
2013 .		
2012	Incipient fault detection and diagnosis using artificial neural networks. 1990,	10
2011 .		1
2010	Force control of a robotic manipulator by application of a neural network. 1990, 5, 15-24	2
2009	Neurogammon: a neural-network backgammon program. 1990,	21
2008	Application Of Learning Signal Processing System On RBC Velocity Measurement Using Laser Doppler Technique.	
2007	The effects of distortion measures and feature sets on neural network classifiers. 1990,	
2006 .		6

2005	Categorization of faces using unsupervised feature extraction. 1990,	60
2004	.	7
2003	. 1990,	1
2002	ECG Beat Classification By A Neural Network.	29
2001	Resource constrained design of artificial neural networks. 1990,	1
2000	A network model of catecholamine effects: gain, signal-to-noise ratio, and behavior. 1990, 249, 892-5	591
1999	Neural networks for data fusion.	2
1998	Neural Network Applications for Robotic Motion Control.	9
1997	A Neural Network for Nonlinear Bayesian Estimation in Drug Therapy. 1990, 2, 216-225	14
1996	.	4
1995	. 1990,	10
1994	Modification of backpropagation networks for complex-valued signal processing in frequency domain. 1990,	37
1993	A comparative study of neural network algorithms applied to optical character recognition. 1990,	3
1992	Model-free distributed learning. 1990, 1, 58-70	39
1991	.	
1990	Computation of proximity effect corrections in electron beam lithography by a neural network. 1990,	1
1989	.	
1988	Three-dimensional neural net for learning visuomotor coordination of a robot arm. 1990, 1, 131-6	180

1987	Nonlinear prediction with self-organizing maps. 1990,	33
1986	. 1990,	2
1985	Estriation Of SiO/sub 2/ Content Using Thermal Infrared Reflectance Spectra Of Rocks.	
1984	.	
1983	.	
1982	. 1990,	1
1981	.	3
1980	Improvement Of Pattern Recognition Rate Using Hybrid Learning-reverse Learning Processes Of Neural Network.	
1979	Pronunciation of Digit Sequences in Text-to-Speech Systems. 1990, 2, 241-249	1
1978	Training algorithms for backpropagation neural networks with optimal descent factor. 1990, 26, 1698	13
1977	Regularization algorithms for learning that are equivalent to multilayer networks. 1990, 247, 978-82	749
1976	PREDICTING BANK FAILURES: A NEURAL NETWORK APPROACH. 1990, 4, 265-282	47
1975	A novel objective function for improved phoneme recognition using time-delay neural networks. 1990, 1, 216-28	127
1974	Digital Image Processing for Ophthalmology. 1990, 548-568	6
1973	Empirical Learning Using Rule Threshold Optimization for Detection of Events in Synthetic Images. 1990, 5, 427-450	
1972	A comparative study of neural network models. 1990, 14, 300-304	2
1971	Mismatch negativity (MMN) for sequences of auditory and visual stimuli: evidence for a mechanism specific to the auditory modality. 1990, 77, 436-44	60
1970	.	2

1969 .		5
1968	Empirical learning using rule threshold optimization for detection of events in synthetic images. 1990 , 5, 427-450	1
1967	Neural Network Approaches Versus Statistical Methods In Classification Of Multisource Remote Sensing Data. 1990 , 28, 540-552	543
1966	Complete solution of the local minima in the XOR problem. 1991 , 2, 119-124	13
1965 . 1991 ,		8
1964 . 1991 , 39, 298-307		21
1963 . 1991 , 39, 698-713		43
1962 .		11
1961 .		2
1960 . 1991 ,		1
1959	Back-propagation learning and nonidealities in analog neural network hardware. 1991 , 2, 110-7	43
1958 .		2
1957 .		1
1956 .		2
1955 .		1
1954 .		7
1953 . 1991 , 7, 382-390		30
1952 . 1991 ,		0

1951	An artificial neural network for SPECT image reconstruction. 1991 , 10, 485-7	60
1950	.	1
1949	. 1991 , 6, 890-896	22
1948	.	0
1947	. 1991 ,	5
1946	.	1
1945	Peptides Secondary Structure Prediction With Neural Networks Using "Weak Homologies".	1
1944	. 1991 ,	12
1943	.	
1942	Signal prediction by an optically controlled neural network. 1991 , 30, 950-7	8
1941	Lesioning an attractor network: investigations of acquired dyslexia. 1991 , 98, 74-95	689
1940	Artificial neural networks and gas sensor arrays: quantification of individual components in a gas mixture. 1991 , 2, 464-469	99
1939	Neural network modelling. 1991 , 36, 1259-317	37
1938	Eigenvalues of covariance matrices: Application to neural-network learning. 1991 , 66, 2396-2399	68
1937	.	
1936	.	0
1935	.	11
1934	Models of neural networks. 1991 , 150-207	

1933	Extracting features from faces using compression networks: Face, identity, emotion, and gender recognition using holons. 1991 , 328-337	6
1932	Identification of water and nutrient supply to hydroponic tomato plants by using neural nets. 1991 , 24, 285-288	3
1931	Application of fuzzy logic and neural network to the process control of solution ph in deep hydroponic culture. 1991 , 24, 147-152	3
1930	INTRODUCTION TO ARTIFICIAL NEURAL NETWORKS. 1991 , 441-487	1
1929	Neural network architectures for content-addressable memory. 1991 , 138, 33	0
1928	Intelligent laser welding control. 1991 ,	3
1927	Neurocomputing Formalisms for Computational Learning and Machine Intelligence. 1991 , 33, 173-245	3
1926	Evolving a learning algorithm for the binary perceptron. 1991 , 2, 353-359	21
1925	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
1924	Recurrent neural network application to image filtering: 2-D Kalman filtering approach. 1991 , 1451, 234	
1923	Challenges of vision theory: self-organization of neural mechanisms for stable steering of object-grouping data in visual motion perception. 1991 , 1569, 200	
1922	Learning algorithms for oscillatory networks with gap junctions and membrane currents. 1991 , 2, 17-41	17
1921	Computer Virus Identification by neural networks. 1991 , 9, 49-59	2
1920	Neural networks for protein structure prediction. 1991 , 202, 204-24	21
1919	Use of neural networks for inversion of seismic data. 1991 ,	3
1918	Systolic implementation of hopfield networks of arbitrary size. 1991 , 268-276	
1917	.	1
1916	Process estimation: Linear adaptive algorithms and neural networks. 1991 , 171-188	

1915	Methods for encoding in multilayer feed-forward neural networks. 1991 , 136-143	
1914	Healthy Scepticism. 1991 , 66, 305-324	7
1913	Application of neural networks for compliant tool polishing operations. 1991 , 28, 241-250	6
1912	Improvement of identification capability in an odor-sensing system. 1991 , 3, 221-226	58
1911	Integration of adaptive machine learning and knowledge-based systems for routing and scheduling applications. 1991 , 2, 15-27	19
1910	NN-driven fuzzy reasoning. 1991 , 5, 191-212	388
1909	Back-propagation algorithm which varies the number of hidden units. 1991 , 4, 61-66	356
1908	Creating artificial neural networks that generalize. 1991 , 4, 67-79	354
1907	Linear programming, recurrent associative memories, and feed-forward neural networks. 1991 , 22, 71-90	4
1906	Neural networks: Promise for the future?. 1991 , 6, 351-354	2
1905	Structure-odor relationships using neural networks. 1991 , 26, 829-833	30
1904	Detection of odorants using an array of piezoelectric crystals and neural-network pattern recognition. 1991 , 249, 323-329	42
1903	Orientation-independent recognition of chrysanthemum nodes by an artificial neural network. 1991 , 5, 305-314	7
1902	Simulated annealing approach in backpropagation. 1991 , 3, 207-220	15
1901	Neural network models and the prediction of bank bankruptcy. 1991 , 19, 429-445	170
1900	Adaptive neural models for on-line prediction in fermentation. 1991 , 69, 481-487	53
1899	A pattern recognition approach to geophysical inversion using neural nets. 1991 , 105, 629-648	61
1898	Symbolic-neural systems and the use of hints for developing complex systems. 1991 , 35, 291-311	39

1897	. 1991 , 24, 64-71	75
1896	. 1991 , 21, 273-280	80
1895	Recognition of decays of charged tracks with neural network techniques. 1991 , 67, 183-192	7
1894	Fast track finding with neural networks. 1991 , 64, 46-56	37
1893	A neural network methodology for heat transfer data analysis. 1991 , 34, 2063-2070	91
1892	Objective picture quality scale by neural networks (PQS-NN). 1991 , 74, 19-27	0
1891	A neural network for the estimation of forces acting on radar targets. 1991 , 4, 667-678	8
1890	Introduction to connectionist computing. 1991 , 23, 530-538	2
1889	Neural network model of temporal pattern memory. 1991 , 22, 61-69	1
1888	Objective picture quality scale by neural network fed the distortion factors to the input layers. 1991 , 22, 104-111	
1887	Back-propagation learning of neural networks for translation invariant pattern recognition. 1991 , 22, 80-89	4
1886	Phoneme recognition with elliptic discrimination neural units. 1991 , 22, 90-100	
1885	Bioprocess model building using artificial neural networks. 1991 , 7, 77-82	36
1884	Using artificial neural networks to aid decision making processes. 1991 , 461-468	
1883	A self-organizing semantic map for information retrieval. 1991 ,	140
1882	A Critical Review of Neural Net Theories of REM Sleep. 1991 , 1,	1
1881	A more biologically plausible learning rule than backpropagation applied to a network model of cortical area 7a. 1991 , 1, 293-307	66
1880	A Forth-based hybrid neuron for neural nets. 1991 ,	1

1879	Removing Time Variation with the Anti-Hebbian Differential Synapse. 1991 , 3, 312-320	43
1878	Invariant pattern recognition using Fourier-Mellin transforms and neural networks. 1991 , 22, 223-228	9
1877	Encoding strategies in multilayer neural networks. 1991 , 24, 5617-5638	
1876	Neural networks for molecular sequence database management. 1991 ,	3
1875	. 1991 ,	0
1874	.	0
1873	Dynamic programming approach to optimal weight selection in multilayer neural networks. 1991 , 2, 465-7	9
1872	. 1991 ,	9
1871	Learning processes in neural networks. 1991 , 44, 2718-2726	76
1870	Electroretinographical (ERG) Based Classification Of Eye Diseases.	
1869	.	4
1868	.	3
1867	.	3
1866	. 1991 ,	8
1865	. 1991 ,	1
1864	.	5
1863	. 1991 ,	1
1862	.	

1861	Probabilistic Bit Stream Neural Chip: Theory. 1991 , 3, 317-328	18
1860	.	
1859	. 1991 ,	0
1858	. 1991 ,	
1857	.	1
1856	. 1991 ,	4
1855	.	2
1854	.	8
1853	.	2
1852	. 1992 ,	1
1851	.	1
1850	.	
1849	.	1
1848	.	
1847	Neural Network-Based Modelling and Control of Fuzzy Systems.	
1846	Left ventricle detection in radionuclide ventriculography by a model of neural network. 1992 ,	
1845	Predicting time series using a neural network as a method of distinguishing chaos from noise. 1992 , 25, 843-850	30
1844	Biologically based machine learning paradigms. 1992 ,	

1843	The Offset Algorithm: Building and Learning Method for Multilayer Neural Networks. 1992 , 18, 95-100	21
1842	Cognitive Binding: A Computational-Modeling Analysis of a Distinction between Implicit and Explicit Memory. 1992 , 4, 289-98	49
1841	Ultrasound Tomography Imaging of Defects Using Neural Networks. 1992 , 4, 758-771	1
1840	.	3
1839	Biologically based machine learning paradigms. 1992 , 24, 87-91	1
1838	Sensors and Sensory Systems for an Electronic Nose. 1992 ,	58
1837	A mixed gases measurement system based on thin film SAW sensor array and neural network. 1992 ,	
1836	.	9
1835	.	
1834	.	1
1833	Control, Connectionism and Cognition: Towards a New Regulatory Paradigm. 1992 , 43, 517-536	8
1832	A neural network model as a globally coupled map and applications based on chaos. 1992 , 2, 377-386	208
1831	Direct and Indirect Cooperation between Temporal and Parietal Networks for Invariant Visual Recognition. 1992 , 4, 35-57	14
1830	.	10
1829	Learning-parameter adjustment in neural networks. 1992 , 45, 8885-8893	15
1828	Learning in neural networks with local minima. 1992 , 46, 5221-5231	26
1827	Storage capacity and learning algorithms for two-layer neural networks. 1992 , 45, 7590-7609	55
1826	Artificial neural networks for plasma x-ray spectroscopic analysis. 1992 , 63, 4775-4777	11

1825 .	1
1824 .	2
1823 .	3
1822 Quantitative analysis of protein far UV circular dichroism spectra by neural networks. 1992, 5, 191-5	909
1821 Initial events of protein folding from an information-processing viewpoint. 1992, 46, 5242-5248	18
1820 Stability Prediction of Nonlinear System Using Multilayer Feed-forward Artificial Neural Network.	
1819 .	28
1818 .	4
1817 .	6
1816 Connectionism and artificial intelligence: history and philosophical interpretation. 1992, 4, 295-313	6
1815 Modifying the Generalized Delta Rule to Train Networks of Non-monotonic Processors for Pattern Classification. 1992, 4, 19-31	61
1814 Autonomous processing in parallel distributed processing networks. 1992, 5, 199-219	35
1813 . 1992, 4, 177-185	15
1812 LINEAR PROGRAMMING AND RECURRENT ASSOCIATIVE MEMORIES. 1992, 20, 177-194	3
1811 .	2
1810 Neural networks as components. 1992,	
1809 Optical scale and rotation-invariant pattern recognition. 1992,	
1808 Fuzzy Control of Fed-batch Fermentation with the Aid of Neural Networks. 1992, 25, 167-172	

- 1807 The Use of Look Ahead Factoring in Neurocontrol Using Forward Plant Dynamics. **1992**, 25, 543-550
- 1806 Modelling the Cyathus Striatus Fermentation Process: Comparison of Three Methods. **1992**, 25, 59-64
- 1805 Adaptive Optimal Operation of a Bioreactor Based on a Neural Net Model. **1992**, 25, 391-394
- 1804 Identification of Hydroponics in an Advanced Control System of the Greenhouse. **1992**, 25, 169-174
- 1803 Adaptive Signal Processing Applied in Telecommunications. **1992**, 25, 431-441
- 1802 Negative transfer problem in neural networks. **1992**, 1710, 365
- 1801 Comparison and evaluation of variants of the conjugate gradient method for efficient learning in feed-forward neural networks with backward error propagation. **1992**, 3, 27-35 9
- 1800 Proceedings of the Physiological Society, 18-20 July 1991, Cambridge Meeting: Poster Communications. **1992**, 446, 330-389
- 1799 Proceedings of the Physiological Society, 18-20 July 1991, Cambridge Meeting: Poster Communications. **1992**, 446, 330-389
- 1798 Does the nervous system use equilibrium-point control to guide single and multiple joint movements?. **1992**, 15, 603-13 400
- 1797 The representation of egocentric space in the posterior parietal cortex. **1992**, 15 Spec No 4, 691-700 298
- 1796 Is stiffness the mainspring of posture and movement?. **1992**, 15, 756-758 42
- 1795 Equilibrium-point hypothesis, minimum effort control strategy and the triphasic muscle activation pattern. **1992**, 15, 769-771 45
- 1794 Communications. **1992**, 21, 52-56
- 1793 .
- 1792 Minimum-risk decisions in the management of suspected heart attack: an application of the Boltzmann perceptron network. **1992**, 1
- 1791 Inheritance of knowledge in neural networks via symbolic algebra. **1992**,
- 1790 Inversion of seismic waveforms using neural networks. **1992**, 4

1789 Robust shape recognition using space-perturbation neural networks. **1992,**

1788 Recent Trend of Computer Colour Matching for Dyes. **1992, 65, 700-710**

1787 Context, cortex, and dopamine: a connectionist approach to behavior and biology in schizophrenia. **1992, 99, 45-77** 1296

1786 Neural Networks and the Bias/Variance Dilemma. **1992, 4, 1-58** 2208

1785 . **1992, 39, 99-108** 3

1784 Maximum Entropy and Bayesian Methods. **1992,** 6

1783 Clustering proteins into families using artificial neural networks. **1992, 8, 39-44** 9

1782 .

1781 . 1

1780 .

1779 .

1778 Classification of Remotely Sensed Data Using Ocr-Inspired Neural Network Techniques. 2

1777 .

1776 . 1

1775 . 6

1774 Neural networks designed on approximate reasoning architecture and their applications. **1992, 3, 752-60** 88

1773 . 27

1772 .

1771 .		
1770 .		1
1769 .		
1768 .		
1767	Identification of different types of leucocytes in dried blood smears using neural networks.	
1766	Detection of transient EEG patterns with adaptive unsupervised neural networks.	
1765 .		0
1764 .		2
1763 .	1992,	
1762 .		1
1761	A Practical Bayesian Framework for Backpropagation Networks. 1992, 4, 448-472	1528
1760 .	1992, 40, 1396-1408	18
1759	A framework for neural net specification. 1992, 18, 601-612	12
1758	The Meta-Pi network: building distributed knowledge representations for robust multisource pattern recognition. 1992, 14, 751-769	56
1757 .	1992, 30, 482-490	244
1756	Neural computing in cancer drug development: predicting mechanism of action. 1992, 258, 447-51	269
1755	The cerebellum and VOR/OKR learning models. 1992, 15, 445-53	234
1754	Neural network modelling for real-time variable estimation and prediction in the control of glucoamylase fermentation. 1992, 27, 275-283	54

1753	A neural network for computing surface curvature from optic flow. 1992 , 656, 861-4	1
1752	Translation, rotation, and scale invariant pattern recognition by high-order neural networks and moment classifiers. 1992 , 3, 241-51	135
1751	. 1992 , 27, 701-713	20
1750	Computational neural networks as model-free mapping devices. 1992 , 32, 732-741	52
1749	.	6
1748	Neural Network System for the Identification of Infrared Spectra. 1992 , 46, 807-810	50
1747	Prediction of atmospherically induced wave-front degradations. 1992 , 17, 466-8	36
1746	Predicting protein secondary structure content. A tandem neural network approach. 1992 , 225, 713-27	90
1745	A New Method Using Neural Networks to Evaluate the Transitional Thermal Sensation of an Automobile Occupant. 1992 ,	2
1744	Does the nervous system depend on kinesthetic information to control natural limb movements?. 1992 , 15, 614-632	292
1743	Implications of neural networks for how we think about brain function. 1992 , 15, 644-655	76
1742	Distributed processing of sensory information in the leech. III. A dynamical neural network model of the local bending reflex. 1992 , 12, 3877-95	37
1741	Theory of the Backpropagation Neural Network**Based on Bonindentlly by Robert Hecht-Nielsen, which appeared in Proceedings of the International Joint Conference on Neural Networks 1, 593-611, June 1989. 1989 IEEE.. 1992 , 65-93	342
1740	Bi-Directional Optimal Reduction of Dimensionality in Multichannel Seismic Signal Processing using Neural Networks. 1992 , 23, 57-60	1
1739	References. 421-466	
1738	Successive approximation in targeted movement: An alternative hypothesis. 1992 , 15, 729-730	
1737	A computational model of four regions of the cerebellum based on feedback-error learning. 1992 , 68, 95-103	469
1736	Neural network studies. 4. An extended study of the aqueous solubility of organic compounds. 1992 , 44, 853-867	12

1735	Evaluation of nonlinear optimization methods for the learning algorithm of artificial neural networks. 1992 , 23, 101-111		1
1734	Neural computer using electromagnetic coupling. 1992 , 23, 85-96		
1733	Neural nets tested by psychophysical methods. 1992 , 5, 153-162		1
1732	Bipolar optical neural networks using ferroelectric liquid crystal devices. 1992 , 5, 169-177		10
1731	General asymmetric neural networks and structure design by genetic algorithms. 1992 , 5, 327-334		78
1730	Fast generating algorithm for a general three-layer perceptron. 1992 , 5, 771-777		19
1729	Towards a theory of cognition under a new control paradigm. 1992 , 11, 71-88		8
1728	Neural networks. Learning from your neighbour. <i>Nature</i> , 1992 , 355, 112-3	50.4	3
1727	Self-organizing neural network that discovers surfaces in random-dot stereograms. <i>Nature</i> , 1992 , 355, 161-3	50.4	217
1726	Nonlinear prediction as a way of distinguishing chaos from random fractal sequences. <i>Nature</i> , 1992 , 358, 217-220	50.4	168
1725	Fuzzy regression analysis using neural networks. 1992 , 50, 257-265		101
1724	Possibility and necessity pattern classification using neural networks. 1992 , 48, 331-340		16
1723	Data processing for multi-channel optical recording: action potential detection by neural network. 1992 , 43, 23-33		12
1722	Construction of fuzzy inference rules by NDF and NDFL. 1992 , 6, 241-266		51
1721	A connectionist expert system for fault diagnosis. 1992 , 24, 99-103		3
1720	Gas/odor identification by semiconductor gas-sensor array and an analog artificial neural-network circuit. 1992 , 8, 181-186		17
1719	Neural networks used as a soft-modelling technique for quantitative description of the relation between physical structure and mechanical properties of poly(ethylene terephthalate) yarns. 1992 , 16, 77-86		31
1718	Deterministic prediction and chaos in squid axon response. 1992 , 169, 41-45		36

1717	Neural networks and operations research: An overview. 1992 , 19, 179-189	53
1716	Adaptive quadratic neural nets. 1992 , 13, 325-329	17
1715	Improving neural net convergence. 1992 , 13, 331-338	
1714	How neural are neural networks? a comparison of information processing and storage in artificial and real neural systems. 1992 , 33, 27-65	
1713	Physiological constraints on the formal representation of neurons. 1992 , 33, 67-98	1
1712	Comparing the performance of neural networks to well-established methods of multivariate data analysis: the classification of mass spectral data. 1992 , 344, 186-189	26
1711	Inter-Block Redundancy Reduction in Vector-Quantized Images by a Neural Predictor. 1992 , 3, 605-607	1
1710	Neuro-fuzzy control of bioreactor systems with pattern recognition. 1992 , 74, 39-45	55
1709	Analysis of the state characteristics of sake brewing with a neural network. 1992 , 73, 153-158	16
1708	Realistic neural network models using backpropagation: panacea or oxymoron?. 1992 , 4, 47-59	17
1707	Parallel perceptron learning on a single-channel broadcast communication model. 1992 , 18, 133-148	7
1706	Learning and prediction of nuclear stability by neural networks. 1992 , 540, 1-26	36
1705	Improving the convergence of the back-propagation algorithm. 1992 , 5, 465-471	290
1704	Some suggestions concerning the development of artificial intelligence tools for spatial modelling and analysis in GIS. 1992 , 26, 35-51	16
1703	A demonstration that breast cancer recurrence can be predicted by neural network analysis. 1992 , 21, 47-53	63
1702	A practical application of neural network analysis for predicting outcome of individual breast cancer patients. 1992 , 22, 285-93	110
1701	Linear and nonlinear associative memories for parameter estimation. 1992 , 61, 45-66	13
1700	Connectionist learning of belief networks. 1992 , 56, 71-113	216

1699	A neural network architecture for understanding discrete three-dimensional scenes in medical imaging. 1992 , 25, 569-85	18
1698	Prediction of the Secondary Structure of Proteins from the Amino Acid Sequence with Artificial Neural Networks. 1993 , 32, 1141-1143	3
1697	Neuronale Netze in der Chemie. 1993 , 105, 510-536	46
1696	Vorhersage der Sekundärstruktur von Proteinen aus der Aminosäuresequenz mit künstlichen neuronalen Netzen. 1993 , 105, 1192-1194	
1695	Neural Network Analysis of DNA flow cytometry histograms. 1993 , 14, 74-80	16
1694	Using a neural network to identify potential HLA-DR1 binding sites within proteins. 1993 , 6, 41-8	17
1693	Using genetic algorithms for an artificial neural network model inversion. 1993 , 20, 45-55	14
1692	An architecture of neural networks with interval weights and its application to fuzzy regression analysis. 1993 , 57, 27-39	90
1691	A neural-net approach to economic power dispatch. 1993 , 21, 131-138	4
1690	Perfume and flavour identification by odour-sensing system using quartz-resonator sensor array and neural-network pattern recognition. 1993 , 10, 85-90	99
1689	Training backpropagation and CMAC neural networks for control of a SCARA robot. 1993 , 6, 105-115	24
1688	Neural network synthesis for thermal processes. 1993 , 3, 233-239	8
1687	Classifying multispectral data by neural networks. 1993 , 10, 209-222	9
1686	Robust classification of high-dimensional data using artificial neural networks. 1993 , 3, 71-81	7
1685	Predicting secondary structures of membrane proteins with neural networks. 1993 , 22, 41-51	26
1684	Time series predictions with neural nets: Application to airborne pollen forecasting. 1993 , 37, 139-144	33
1683	Application of neural networks to fuzzy control. 1993 , 6, 791-799	16
1682	A neural network model for arm trajectory formation using forward and inverse dynamics models. 1993 , 6, 919-932	147

1681	Peptides secondary structure prediction with neural networks: a criterion for building appropriate learning sets. 1993 , 40, 1114-21	11
1680	Application of image analysis with neural network for plant somatic embryo culture. 1993 , 76, 505-509	36
1679	Neural networks with local distributed parameters. 1993 , 5, 211-219	2
1678	Hierarchical classification and vector quantization with neural trees. 1993 , 5, 119-139	10
1677	Neural computation in medicine. 1993 , 5, 143-57	54
1676	Multiple disorder diagnosis with adaptive competitive neural networks. 1993 , 5, 469-87	13
1675	Pig image outlining using artificial neuron parameters in the snake contour method. 1993 , 8, 277-292	1
1674	Neural network constructive algorithms: Trading generalization for learning efficiency?. 1993 , 12, 331-374	49
1673	New Trends in Structure-Biodegradability Relationships. 1993 , 12, 49-56	36
1672	An analogue test technique for massively parallel integrated circuits and systems: An approach to neural networks circuits testing. 1993 , 48, 537-545	
1671	. 1993 , 1, 205-221	30
1670	Genetic set recombination and its application to neural network topology optimisation. 1993 , 1, 67-90	57
1669	Neural network principal components preprocessing and diffraction tomography. 1993 , 1, 107-114	2
1668	Self-organizing neural networks for the analysis and representation of data: Some financial cases. 1993 , 1, 193-206	64
1667	Reducing error in neural network time series forecasting. 1993 , 1, 240-247	7
1666	A neural network approach for evaluating distribution system reliability. 1993 , 26, 225-229	9
1665	New approaches to QSAR: Neural networks and machine learning. 1993 , 1, 279-290	22
1664	A neural network representation of electromyography and joint dynamics in human gait. 1993 , 26, 101-9	106

1663	Four-quadrant optical matrix-vector multiplication machine as a neural-network processor. 1993 , 32, 1330-7	1
1662	A lower bound on the detectability of nonassociative learning in the local bending reflex of the medicinal leech. 1993 , 59, 208-24	17
1661	Interpretative reporting and alarming based on laboratory data. 1993 , 222, 37-48	6
1660	Reversal of LTP by theta frequency stimulation. 1993 , 600, 97-102	130
1659	The computational leech. 1993 , 16, 283-90	22
1658	A weighted nearest neighbor algorithm for learning with symbolic features. 1993 , 10, 57-78	356
1657	Predicting phosphorus NMR shifts using neural networks. 1993 , 33, 577-589	16
1656	Glove-Talk: a neural network interface between a data-glove and a speech synthesizer. 1993 , 4, 2-8	179
1655	The Cascade Neural Network Model and a Speed-Accuracy Trade-Off of Arm Movement. 1993 , 25, 162-174	27
1654	.	
1653	Symmetries and discriminability in feedforward network architectures. 1993 , 4, 816-26	22
1652	Fast backpropagation for supervised learning.	
1651	.	2
1650	. 1993 , 40, 331-342	2
1649	.	0
1648	.	
1647	.	5
1646	.	1

1645	A CMOS analog adaptive BAM with on-chip learning and weight refreshing. 1993 , 4, 445-55	36
1644	Correction of intensity variations in MR images for computer-aided tissue classification. 1993 , 12, 770-81	210
1643	.	
1642	.	
1641	. 1993 , 1, 85-97	194
1640	.	0
1639	.	23
1638	.	
1637	.	3
1636	.	2
1635	The Interpretation Of Supervised Neural Networks.	2
1634	.	2
1633	.	0
1632	Backpropagation neural nets with one and two hidden layers. 1993 , 4, 136-41	207
1631	. 1993 , 29, 336-344	32
1630	.	1
1629	.	18
1628	. 1993 , 6, 343-347	52

1627	A Weighted Nearest Neighbor Algorithm for Learning with Symbolic Features. 1993 , 10, 57-78	172
1626	Neural net forecasting for geomagnetic activity. 1993 , 20, 2707-2710	61
1625	Human Category Learning: Implications for Backpropagation Models. 1993 , 5, 3-36	129
1624	Computational models of the neural bases of learning and memory. 1993 , 16, 667-706	83
1623	Iterative weighted least squares algorithms for neural networks classifiers. 1993 , 75-86	2
1622	.	1
1621	.	0
1620	.	
1619	A DEEPER UNITY: SOME FEYERABENDIAN THEMES IN NEUROCOMPUTATIONAL FORM. 1993 , 7, 39-58	1
1618	Sequence Recognition with Recurrent Neural Networks. 1993 , 5, 139-152	9
1617	Adapting the structure of a neural network to extract chemical information. Application to structure-odour relationships. 1993 , 1, 221-31	12
1616	Rule-based artificial neural networks. 1993 , 24, 1415-1418	1
1615	.	0
1614	.	2
1613	.	2
1612	Neural modelling of the biodegradability of benzene derivatives. 1993 , 1, 161-7	18
1611	Use of neural networks for parameter prediction and quality inspection in TIG welding. 1993 , 15, 87-95	14
1610	Advanced ovarian cancer. Neural network analysis to predict treatment outcome. 1993 , 4 Suppl 4, 31-4	26

1609	. 1993,	2
1608	Protein folding analysis by an artificial neural network approach.	
1607	A novel pattern searching method using neural networks and correlation.	
1606	Silent cerebral embolism caused by neurologically symptomatic high-grade carotid stenosis. Event rates before and after carotid endarterectomy. 1993 , 116 (Pt 5), 1005-15	146
1605	Neural network prediction of mortality.	
1604	Nonlinear mapping of interval vectors by neural networks.	2
1603	An identification of human faces using bright-spots matrix projection.	2
1602	A Sociological History of the Neural Network Controversy. 1993 , 335-425	6
1601	Canonical PWL network and multilayer perceptron-like networks: a unified view.	0
1600	Construction of efficient neural networks: Algorithms and tests.	2
1599	A Neural Network Model of Cortical Activity during Reaching. 1993 , 5, 14-33	47
1598	Coarse Coding Resource-Allocating Network. 1993 , 5, 105-114	9
1597	Learning Competition and Cooperation. 1993 , 5, 242-259	8
1596	Learning to Generalize from Single Examples in the Dynamic Link Architecture. 1993 , 5, 719-735	44
1595	The weight-space of the binary perceptron. 1993 , 26, 6173-6185	9
1594	Numerical Study of Back-Propagation Learning Algorithms for Multilayer Networks. 1993 , 21, 501-506	6
1593	Identifying the charge of the struck quark in deep-inelastic scattering. 1993 , 19, 1631-1632	
1592	Application of neural networks for the classification of diffuse liver disease by quantitative echography. 1993 , 15, 205-17	13

1591	Reactive ion etching profile and depth characterization using statistical and neural network analysis of light scattering data. 1993 , 74, 3698-3706	14
1590	.	0
1589	.	0
1588	Neural network for automatic detection of EEG spikes.	
1587	.	1
1586	A neural-network to get correlated information among multiple inputs.	3
1585	Memory effect of an organic photoconductor and its application to a neuron model. 1993 , 62, 648-650	9
1584	Cooling schedules for learning in neural networks. 1993 , 47, 4457-4464	11
1583	Learning Simple Arithmetic Procedures. 1993 , 5, 37-58	42
1582	.	1
1581	Deep dyslexia: A case study of connectionist neuropsychology. 1993 , 10, 377-500	704
1580	Failure Prediction of Fibre-Reinforced Materials with Neural Networks. 1993 , 12, 1270-1280	6
1579	A Neural Network Model of Sensorimotor Transformations in the Local Bending Reflex of the Medicinal Leech. 1993 , 33, 40-53	2
1578	On-line learning processes in artificial neural networks. 1993 , 51, 199-233	28
1577	Bibliography. 1993 , 149-176	
1576	A cardiac output estimation model with a neural network-toward total artificial heart control.	0
1575	PREDICTION OF HELICOPTER COMPONENT LOADS USING NEURAL NETWORKS. 1993 ,	8
1574	Issues in the Modelling and Control of Fed Batch Fermentation Processes. 1993 , 26, 221-224	

- 1573 Computer Integrated System for Plant Factory - Application of Optimal Regulator and Genetic Algorithm to the Optimal Control of Physiological Processes of Plant. **1993**, 26, 1165-1168
- 1572 Stimulus Equivalence and Connectionism: Implications for Behavior Analysis and Cognitive Science. **1993**, 43, 617-638 59
- 1571 A Model of Il-7 and Extra-Cellular Domains of its Receptor Complex using Distance Geometry and Structure-Function Data. **1993**,
- 1570 Integration of Neural Networks with Fuzzy Reasoning for Measuring Operational Parameters in a Nuclear Reactor. **1993**, 104, 1-12 35
- 1569 Four-quadrant optical matrix vector multiplication machine as a neural network processor. **1993**,
- 1568 Commentaries. **1993**, 25, 755-760 2
- 1567 Category-specific naming impairments? Yes. **1993**, 46, 489-509 43
- 1566 On learning simple neural concepts: from halfspace intersections to neural decision lists. **1993**, 4, 67-85 7
- 1565 Artificial neural networks architecture for handwritten signature authentication. **1993**, 1965, 633 1
- 1564 Automatic system for the classification of cellular categories in cytological images. **1993**, 1
- 1563 Learning tree: a new concept in learning. **1993**, 1
- 1562 A Comparative Analysis of Inductive-Learning Algorithms. **1993**, 2, 3-18 26
- 1561 Quantitative Structure Activity Relationships of Dihydrofolate Reductase Inhibitors by Neural Networks. **1993**,
- 1560 Power Law In Feedforward Networks.
- 1559 From Geometric Motion Planning to Neural Motor Control in Robotics. **1993**, 6, 3-17 8
- 1558 Multitask Learning: A Knowledge-Based Source of Inductive Bias. **1993**, 41-48 185
- 1557 Evaluation of laboratory data by conventional statistics and by three types of neural networks. **1993**, 39, 1966-1971 9
- 1556 Literaturverzeichnis. **1994**, 806-846

1555 4.3 Computergestützte Wissenschaftstheorie. **1994**, 664-742

1554 The Relative Accuracy of a Variety of Medical Diagnostic Programs. **1994**, 33, 402-416

18

1553 Artificial neural network predictions of urinary calculus compositions analyzed with infrared spectroscopy. **1994**, 40, 1692-1697

24

1552 Literatur. **1994**, 175-177

1551 Reactivity Surveillance in a Nuclear Reactor by Using a Layered Artificial Neural Network. **1994**, 117, 186-193

9

1550 7. Anhang. **1994**, 163-169

1549 A Neural Network Approach to Feature Extraction in Sensor Signal Processing for Manufacturing Automation. **1994**, 5, 247-257

3

1548 Temporal Coding in the Brain. **1994**,

29

1547 . **1994**,

6

1546 .

2

1545 .

1544 . **1994**,

1543 .

1

1542 .

1541 . **1994**,

1540 .

2

1539 .

1538 . **1994**,

1537	Selection versus instruction: use of computer models to compare brain theories. 1994 , 37, 211-42; discussion 285-8	2
1536	. 1994 ,	2
1535	.	
1534	Multilayer perceptrons as labelers for hidden Markov models. 1994 , 2, 185-193	14
1533	Computational Architectures Integrating Neural And Symbolic Processes. 1994 ,	25
1532	An attribute design method: a new approach to flexible welding machine design. 1994 , 32, 2525-2540	2
1531	Cortical cell assemblies: a possible mechanism for motor programs. 1994 , 26, 66-82	123
1530	Chapter 16 Optimal Control of Reaching Movements. 1994 , 105, 345-366	
1529	Accurate multi-step-ahead prediction of non-linear systems using the MLP neural network with spread encoding. 1994 , 16, 203-213	6
1528	An Internal Report for Connectionists. 1995 , 223-244	5
1527	Applications of inductive logic programming. 1994 , 5, 43-49	5
1526	Non-symbolic approaches to artificial intelligence and the mind. 1994 , 349, 87-102	4
1525	Artificial Intelligence and Creativity. 1994 ,	70
1524	.	
1523	Fringe processing and analysis with a neural network. 1994 , 33, 1166	5
1522	Learning in Boltzmann Trees. 1994 , 6, 1174-1184	17
1521	On Fokker-Planck approximations of on-line learning processes. 1994 , 27, 5145-5160	18
1520	Loading Deep Networks Is Hard. 1994 , 6, 842-850	29

1519	Comparison of Some Neural Network and Scattered Data Approximations: The Inverse Manipulator Kinematics Example. 1994 , 6, 521-542	40
1518	First-Order Recurrent Neural Networks and Deterministic Finite State Automata. 1994 , 6, 1155-1173	42
1517	.	9
1516	Condensed knowledge representation in BP-networks. 1994 ,	1
1515	.	
1514	.	3
1513	Analysis of E.coli promoter structures using neural networks. 1994 , 22, 2158-65	39
1512	A system for the off-line recognition of handwritten text.	10
1511	.	0
1510	Generalisation in neural network time series analysis. 1994 , 38, 341-349	5
1509	A neuro-fuzzy adaptive control strategy for refuse incineration plants. 1994 , 63, 329-338	14
1508	A neural network approach to geostatistical simulation. 1994 , 26, 491-503	13
1507	Learning capacitive weights in analog CMOS neural networks. 1994 , 8, 209-225	3
1506	Artificial neural networks that use single-photon emission tomography to identify patients with probable Alzheimer's disease. 1994 , 21, 1303-11	16
1505	Neural networks as tools to solve problems in physics and chemistry. 1994 , 82, 91-103	33
1504	Zinc oxide thin-film chemical sensors in conjunction with neural network pattern recognition for trimethylamine and dimethylamine gases. 1994 , 29, 6529-6532	37
1503	Quantitative structure-activity relationships by neural networks and inductive logic programming. I. The inhibition of dihydrofolate reductase by pyrimidines. 1994 , 8, 405-20	57
1502	Structure-enantioselectivity relationships using neural networks for the reduction of carbonyl compounds with baker's yeast. 1994 , 35, 4985-4988	12

- 1501 A perfect separation of discrete sample points by four-layered perceptron with localized representation. **1994**, 25, 67-77
- 1500 Survival analysis and neural nets. **1994**, 13, 1189-200 81
- 1499 Self-organized neural maps of human protein sequences. **1994**, 3, 507-21 42
- 1498 Analysis of protein transmembrane helical regions by a neural network. **1994**, 3, 557-66 12
- 1497 Combining evolutionary information and neural networks to predict protein secondary structure. **1994**, 19, 55-72 1319
- 1496 Conservation and prediction of solvent accessibility in protein families. **1994**, 20, 216-26 523
- 1495 Classification of astronomical images with a neural network. **1994**, 217, 49-51 3
- 1494 Test of agreement between two multidimensional empirical distributions. **1994**, 84, 297-306 2
- 1493 Estimating protein function from combinatorial sequence data using decision algorithms and neural networks. **1994**, 33, 125-132 2
- 1492 Neural network control for automatic braking control system. **1994**, 7, 1303-1312 16
- 1491 Minimisation methods for training feedforward neural networks. **1994**, 7, 1-11 168
- 1490 Using artificial neural networks for solving chemical problems. **1994**, 23, 267-291 61
- 1489 Neural networks prediction of partition coefficients. **1994**, 23, 301-308 14
- 1488 Structure-musk odor relationships for tetralins and indans using neural networks (on the contribution of descriptors to the classification). **1994**, 29, 343-348 30
- 1487 Modeling using regularity criterion based constructed neural networks. **1994**, 27, 441-444 1
- 1486 Measurement of the time dependence of mixing using a jet charge technique. **1994**, 327, 411-424 46
- 1485 Universal power law in feed-forward networks. **1994**, 184, 427-431
- 1484 Grouping parts with a neural network. **1994**, 13, 262-275 42

1483	Using molecular representations in combination with neural networks. A case study: Prediction of the HPLC retention index. 1994 , 18, 157-172	12
1482	Automatic ranking of fuzzy numbers with the criterion of a decision-maker learnt by an artificial neural network. 1994 , 64, 1-19	48
1481	A review of combinatorial problems arising in feedforward neural network design. 1994 , 52, 111-138	7
1480	Artificial neural networks as non-linear extensions of statistical methods in astronomy. 1994 , 38, 251-IN2	3
1479	Statistical methods in astronomy based on artificial neural network techniques. 1994 , 38, 257-263	1
1478	Connectionist models of face processing: A survey. 1994 , 27, 1209-1230	235
1477	Evaluation of pattern classifiers for fingerprint and OCR applications. 1994 , 27, 485-501	83
1476	Edge detection using a neural network. 1994 , 27, 1653-1662	28
1475	A fast learning algorithm for neural networks and its applications to adaptive equalizers. 1994 , 77, 75-84	0
1474	Measurement and estimation of system nonlinearity via a neural network. 1994 , 77, 35-44	1
1473	Back-propagation neural networks-recognition vs. prediction capability. 1994 , 13, 743-747	16
1472	Predictive statistics and artificial intelligence in the U.S. National Cancer Institute's Drug Discovery Program for Cancer and AIDS. 1994 , 12, 13-22	61
1471	Comparing the predictive performance of a neural network model with some traditional market response models. 1994 , 10, 235-244	84
1470	Artificial neural network models for forecasting and decision making. 1994 , 10, 5-15	234
1469	Comparative study of artificial neural network and statistical models for predicting student grade point averages. 1994 , 10, 17-34	104
1468	Neural network studies. 1994 , 309, 259-266	18
1467	A decision support system for in-sample simultaneous equation systems forecasting using artificial neural systems. 1994 , 11, 481-495	11
1466	Decision support in non-conservative domains: Generalization with neural networks. 1994 , 11, 527-544	33

1465 Image analysis with artificial neurons to select cutting planes for the micropropagation of syngoniums. **1994**, 10, 189-202

1464 Time-Delay ART for spatio-temporal patterns. **1994**, 6, 513-521

6

1463 A collection of ART-family graphical simulators. **1994**, 6, 591-598

1462 A comparative study of optimization techniques for backpropagation. **1994**, 6, 19-30

12

1461 Iterative weighted least squares algorithms for neural networks classifiers. **1994**, 12, 375-394

9

1460 Neural networks for Higgs search. **1994**, 107, 129-141

6

1459 Artificial neural network and spectrum analysis methods for detecting brain diseases from the CNV response in the electroencephalogram. **1994**, 141, 432-440

11

1458 Supervised and unsupervised learning in radial basis function classifiers. **1994**, 141, 210

44

1457 . **1994**, 82, 1061-1095

48

1456 . **1994**, 42, 936-941

6

1455 . **1994**, 42, 1887-1891

3

1454 Neural networks and inversion of seismic data. **1994**, 99, 6753

128

1453 .

6

1452 Neural networks and their applications. **1994**, 65, 1803-1832

365

1451 Mathematical principles of reinforcement. **1994**, 17, 105-135

289

1450 What do reinforcers strengthen? The unit of selection. **1994**, 17, 138-139

1

1449 .

0

1448 Application of artificial neural networks for prokaryotic transcription terminator prediction. **1994**, 346, 273-7

14

1447	Training feedforward networks with the Marquardt algorithm. 1994 , 5, 989-93	4505
1446	Reconstruction of the El Niño attractor with neural networks. 1994 , 10, 267-276	22
1445	Predicting Indian monsoon rainfall: a neural network approach. 1994 , 10, 305-312	70
1444	. 1994 , 16, 862-863	3
1443	Cell suicide in the developing nervous system: a functional neural network model. 1994 , 2, 71-5	12
1442	Computer-assisted image classification: use of neural networks in anatomic pathology. 1994 , 77, 111-7	9
1441	A hierarchical labeled object classification system.	
1440	. 1994 , 4, 1-8	25
1439	.	
1438	The SENROB vision-system and its philosophy.	5
1437	.	1
1436	The response problem. 1994 , 17, 135-136	3
1435	What defines a legitimate issue for Skinnerian psychology: Philosophy or technology?. 1994 , 17, 137-138	
1434	Moving beyond schedules and rate: A new trajectory?. 1994 , 17, 139-140	
1433	Has learning been shown to be attractor modification within reinforcement modelling?. 1994 , 17, 140-141	
1432	Integration and specificity of retrieval in a memory-based model of reinforcement. 1994 , 17, 142-143	
1431	Memories and functional response units. 1994 , 17, 143-144	3
1430	Killeen's theory provides an answer and a question. 1994 , 17, 144-145	1

1429	Extension to multiple schedules: Some surprising (and accurate) predictions. 1994 , 17, 145-146	7
1428	Problems and pitfalls for Killeen's mathematical principles of reinforcement. 1994 , 17, 146-147	3
1427	Memory and the integration of response sequences. 1994 , 17, 148-149	
1426	Awareness and reinforcement. 1994 , 17, 149-150	
1425	Practical effects of response specification. 1994 , 17, 150-150	
1424	The scale of nature: Fitted parameters and dimensional correctness. 1994 , 17, 150-152	33
1423	Short-term memory in human operant conditioning. 1994 , 17, 152-153	
1422	Animal-centered models of reinforcement. 1994 , 17, 153-154	80
1421	How general is a general theory of reinforcement?. 1994 , 17, 154-155	1
1420	Fifty years on: The new principles of behavior. 1994 , 17, 155-155	1
1419	A mathematical theory of reinforcement: An unexpected place to find support for analogical memory coding. 1994 , 17, 155-156	1
1418	The return of the reinforcement theorists. 1994 , 17, 156-156	
1417	Validation of behavioural equations: Can neurobiology help?. 1994 , 17, 136-137	1
1416	Reinforcement without representation. 1994 , 17, 141-142	
1415	From overt behavior to hypothetical behavior to memory: Inference in the wrong direction. 1994 , 17, 147-148	64
1414	Rats, responses and reinforcers: Using a little psychology on our subjects. 1994 , 17, 157-172	1
1413	.	
1412	. 1994 ,	1

1411	Integrating Neurocomputing and Auditing Expertise. 1994 , 9, 20-26	8
1410	An Evaluation of the Corporate Takeover Model Using Neural Networks. 1994 , 3, 279-292	7
1409	.	2
1408	.	5
1407	. 1994 ,	
1406	Experimental evaluation of distributed identity fusion. 1994 , 2355, 74	0
1405	Detecting and reconstructing vascular trees in retinal images. 1994 , 2167, 815	1
1404	.	
1403	New trends in electrophysiological signal parametrization and feature extraction. 1994 , 2, 93-110	2
1402	Neural Network for Positioning Space Station Solar Arrays. 1994 , 27, 369-374	
1401	Neural Networks in System Identification. 1994 , 27, 359-382	29
1400	A New Method for Acoustic Leak Detection at Complicated Geometrical Structures. 1994 , 27, 147-152	
1399	Using Neural Networks in Nuclear Power Plants for State Diagnosis. 1994 , 27, 591-595	
1398	Studies of Human Arm Control Using a Neural Network Model and Surface EMG Signals. 1994 , 27, 461-466	
1397	Improved automatic adjustment of density and contrast in FCR system using neural network. 1994 , 2163, 98	1
1396	Hyper surface perceptron and its applications. 1994 ,	
1395	Comparative trials in classification of image data. 1994 , 21, 77-91	
1394	Recent Applications of Neural Networks for Spatial Data Handling. 1994 , 20, 368-380	12

1393	A Transfer of Explicitly and Nonexplicitly Trained Sequence Responses Through Equivalence Relations: An Experimental Demonstration and Connectionist Model. 1994 , 44, 559-585	27
1392	. 1994 ,	4
1391	A small selection of neural network methods and their statistical connections. 1994 , 21, 9-37	
1390	Modeling Kohonen networks by attributed parallel array systems. 1994 ,	1
1389	Self-partitioning neural networks for target recognition. 1994 ,	
1388	Macroscopic properties of the cost function of a feed-forward neural network prior to training. 1994 , 5, 389-400	
1387	Model-reference color reproduction for video system based on back-propagation networks. 1994 ,	
1386	Discriminating compact nonnative structures from the native structure of globular proteins. 1995 , 92, 709-13	65
1385	Neural network applications in multisensor systems. 1995 , 15, 15-18	4
1384	A Customized Neural Network for Sensor Fusion in On-Line Monitoring of Cutting Tool Wear. 1995 , 117, 152-159	48
1383	Choosing and using a neural net. 1995 , 273-287	1
1382	Pipelined neural tree learning by error forward-propagation.	2
1381	Chinese character recognition by the auto recognition system.	2
1380	Prediction of O-glycosylation of mammalian proteins: specificity patterns of UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase. 1995 , 308 (Pt 3), 801-13	234
1379	A Calligraphy System Based on Fuzzy-Evaluation of the Writing Speed. 1995 , 7, 371-379	2
1378	Neural Networks as Calibration Methods. 1995 , 6, 2-3	1
1377	Artificial Neural Networks Versus Conventional Methods for Boiling Water Reactor Stability Monitoring. 1995 , 109, 286-305	11
1376	A Convergence Analysis on a Multilayered Neural Network Using a Discrete-Time Modified Back Propagation Algorithm. 1995 , 28, 263-268	

1375	Intelligent Control for Plant Production System. 1995 , 28, 139-144	
1374	Fuzzy Analysis and Neural Network Configuration used in Design Variant Choice. 1995 , 28, 361-364	
1373	Optimization for Fruit Quality during a Storage Process. 1995 , 28, 33-38	1
1372	Comparing Different Modelling Techniques for the Escherichia Coli Fermentation Process. 1995 , 28, 142-147	
1371	New Approach to Total Production Systems Based on an Intelligent Control. 1995 , 28, 183-188	
1370	The Application of Neural Network Systems to the Evaluation of the Quality of Fruits. 1995 , 28, 195-200	1
1369	Spectral identification by artificial neural network and genetic algorithm. 1995 , 16, 2255-2275	7
1368	Prediction of Helicopter Component Loads Using Neural Networks. 1995 , 40, 72-82	22
1367	. 1995 , 31, 1765-1768	13
1366	A CRITICAL COMPARISON OF NEURAL NETWORKS AND DISCRIMINANT ANALYSIS IN LITHOFACIES, POROSITY AND PERMEABILITY PREDICTIONS. 1995 , 18, 191-206	87
1365	Simple encoding of infrared spectra for pattern recognition Part 2. Neural network approach using back-propagation and associative Hopfield memory. 1995 , 316, 145-159	19
1364	Nonlinear black-box modeling in system identification: a unified overview. 1995 , 31, 1691-1724	1340
1363	Feature space mapping as a universal adaptive system. 1995 , 87, 341-371	48
1362	Hardware realization of a fast neural network algorithm for real-time tracking in HEP experiments. 1995 , 365, 198-202	9
1361	An efficient constrained learning algorithm with momentum acceleration. 1995 , 8, 237-249	60
1360	Self partitioning neural networks for target recognition. 1995 , 8, 1475-1486	9
1359	A CAE system for micromachines: its application to electrostatic micro wobble actuator. 1995 , 50, 209-221	6
1358	A general purpose model for image operations based on multilayer perceptrons. 1995 , 28, 1083-1090	2

1357	An Adaptive Momentum Back Propagation (AMBP). 1995 , 3, 213-221	12
1356	Tree-based special-purpose Array architectures for neural computing. 1995 , 11, 245-262	3
1355	Comparison of parallel and serial implementation of feedforward neural networks. 1995 , 18, 83-94	0
1354	Neural state estimation and prediction in amino acid fermentation. 1995 , 9, 607-612	4
1353	Estimation of dynamic joint torques and trajectory formation from surface electromyography signals using a neural network model. 1995 , 73, 291-300	146
1352	Identification of plastic waste using spectroscopy and neural networks. 1995 , 35, 1011-1015	28
1351	A new computational model for protein folding based on atomic solvation. 1995 , 4, 1402-11	31
1350	Automatic picking of seismic arrivals in local earthquake data using an artificial neural network. 1995 , 120, 758-774	97
1349	Neural network analyses of stress-induced overpressures in the Pannonian Basin. 1995 , 121, 532-544	18
1348	Optimal control of physiological processes of plants in a green plant factory. 1995 , 3, 505-511	61
1347	Predicting intersection queue with neural network models. 1995 , 3, 175-191	33
1346	A labeled object identification system using multilevel neural networks. 1995 , 3, 111-126	0
1345	A radial basis function model of muscle stimulated with irregular inter-pulse intervals. 1995 , 17, 431-41	16
1344	A neural network for classifying the financial health of a firm. 1995 , 85, 53-65	109
1343	Model-free forecasting for nonlinear time series (with application to exchange rates). 1995 , 19, 433-459	24
1342	Bayesian neural networks and density networks. 1995 , 354, 73-80	42
1341	Neural network reconstruction of longitudinal beam phase space from the synchrotron radiation spectrum. 1995 , 363, 580-590	2
1340	Artificial neural network studies in quantitative structure-activity relationships of antifungal azoxy compounds. 1995 , 30, 569-574	15

1339	Tetralin, indan and nitrobenzene compound structure-musk odor relationship using neural networks. 1995 , 30, 679-686	17
1338	Stabilizing and tracking unstable focus points in chaotic systems using a neural network. 1995 , 206, 203-210	10
1337	Neural network approach to estimate stable crack growth in welded specimens. 1995 , 63, 303-313	10
1336	Robot adaptivity. 1995 , 15, 11-23	6
1335	Application of a neural network to the analysis of catalytic reactions Analysis of NO decomposition over Cu/ZSM-5 zeolite. 1995 , 132, 261-270	41
1334	Using pattern analysis methods to supplement attention directing analytical procedures. 1995 , 9, 513-528	15
1333	Neural cooperating procedure for fractal analysis of artificial drawings. 1995 , 5, 747-760	
1332	Neural network for classification of active Walker patterns. 1995 , 6, 67-74	3
1331	Neural expert systems. 1995 , 8, 261-271	31
1330	Adaptive perceptual pattern recognition by self-organizing neural networks: Context, uncertainty, multiplicity, and scale. 1995 , 8, 335-362	29
1329	Deterministic learning rules for boltzmann machines. 1995 , 8, 537-548	7
1328	A computational model for recognizing objects and planning hand shapes in grasping movements. 1995 , 8, 839-851	22
1327	Efficacy of modified backpropagation and optimisation methods on a real-world medical problem. 1995 , 8, 945-962	32
1326	Artificial neural networks as aids in circuit design. 1995 , 26, 569-578	10
1325	Handling the nonlinearity of a fuzzy logic controller at the transition between rules. 1995 , 71, 369-387	14
1324	A decision personal index of fuzzy numbers based on neural networks. 1995 , 73, 185-199	7
1323	Hypnosis modelling in neural networks. 1995 , 57, 1-20	
1322	Predicting the orbital lifetime of tethered satellite systems. 1995 , 35, 193-203	4

- 1321 Fuzzy evidential filter for detection and tracking of dim objects. **1995**, 69, 75-96 2
- 1320 Design of a neural controller by inverse modelling. **1995**, 19, 797-802 7
- 1319 A multilayered feed forward neural network suitable for VLSI implementation. **1995**, 19, 231-234
- 1318 A measurement of the production of D^{*+} mesons on the Z0 resonance. **1995**, 67, 27-44 45
- 1317 Study of recognition technique of radar target in one-dimensional images based on Radial Basis Function Network. **1995**, 12, 200-210
- 1316 Hypnosis modelling in neural networks. **1995**, 57, 1-20 2
- 1315 The problems and prospects of comparative and noncomparative theoretical psychology: A response to Kukla. **1995**, 13, 219-222 0
- 1314 Image recognition neural network: IRNN. **1995**, 7, 159-185 21
- 1313 Neuroidentification of a biotechnological process: Issues and application. **1995**, 9, 63-79 2
- 1312 The plasticity of feedforward neural networks in assimilating a training instance based on non-batch learning. **1995**, 7, 299-309
- 1311 Prediction of binding to MHC class I molecules. **1995**, 185, 181-90 67
- 1310 Consciousness: perspectives from symbolic and connectionist AI. **1995**, 33, 1075-86 1
- 1309 Application of a neural network to analyse on-line milking parlour data for the detection of clinical mastitis in dairy cows. **1995**, 22, 15-28 21
- 1308 On the Use of Quasi-Newton-Based Training of a Feedforward Neural Network for Time Series Forecasting. **1995**, 3, 287-294 7
- 1307 A CRITICAL COMPARISON OF NEURAL NETWORKS AND DISCRIMINANT ANALYSIS IN LITHOFACIES, POROSITY AND PERMEABILITY PREDICTIONS. **1995**, 18, 2
- 1306 Fundamental and Practical Aspects of Neural Computing. **1995**, 21-109 7
- 1305 Analyzing rocket plume spectral data with neural networks. **1995**, 0
- 1304 Some learning models of visual system based on local sensory signals integration learning.

1303	Residual Algorithms: Reinforcement Learning with Function Approximation. 1995 , 30-37	226
1302	An Efficient Algorithm for Feed-Forward Neural Network Regression Analysis. 1995 , 22, 67-90	
1301	Building Clinical Classifiers Using Incomplete Observations [A Neural Network Ensemble for Hepatoma Detection in Patients with Cirrhosis. 1995 , 34, 253-258	14
1300	Neural-network design applied to protein-secondary-structure predictions. 1995 , 51, 3619-3627	4
1299	Modeling localized electron pair correlation energies. 1995 , 103, 5662-5673	14
1298	. 1995 , 5, 3168-3171	6
1297	Neural Network Simulation and the Prediction of Corporate Outcomes: Some Empirical Findings. 1995 , 2, 31-50	17
1296	An Integrated Developmental Connectionist Model of Orthography to Phonology and Orthography to Seman.	
1295	The robustness of BP-networks. 1995 ,	0
1294	Stress-Strain Modeling of Sands Using Artificial Neural Networks. 1995 , 121, 429-435	114
1293	A method for improving classification reliability of multilayer perceptrons. 1995 , 6, 1140-7	49
1292	Heterogeneous artificial neural network for short term electrical load forecasting.	1
1291	A variable-parameter unsupervised learning clustering neural network approach with application to machine-part group formation. 1995 , 33, 2395-2413	19
1290	Intelligent design retrieval and packaging system: application of neural networks in design and manufacturing. 1995 , 33, 405-426	11
1289	Double dissociation without modularity: evidence from connectionist neuropsychology. 1995 , 17, 291-321	180
1288	Birdsong recognition with DSP and neural networks.	9
1287	An analysis of network parallelism of backpropagation neural networks on a transputer array.	0
1286	Inverting tomographic data with neural nets.	1

1285	Neural Information Processing and VLSI. 1995,	51
1284	Neuromorphic approach to inverse problems in aerodynamics. 1995, 33, 1150-1152	2
1283	Reinforcement Learning Applied to a Differential Game. 1995, 4, 3-28	23
1282	Application of neural networks to the real-time diagnosis of acute toxoplasmic infection in immunocompetent patients. 1995, 21, 1411-6	3
1281	The Approximate Location of Damage through the Analysis of Natural Frequencies with Artificial Neural Networks. 1995, 209, 117-123	33
1280	alpha-Helix region prediction with stochastic rule learning. 1995, 11, 399-411	
1279	Analysis of transcription control signals using artificial neural networks. 1995, 11, 293-300	
1278	Wavelets and Statistics. 1995,	53
1277	.	
1276	Detection of characteristic waves of sleep EEG by neural network analysis.	2
1275	Application of artificial neural network approach to the interpretation of the biosignal of diabetic skin microcirculation.	
1274	.	0
1273	.	8
1272	Control of memory search by matching features with presynaptic inhibition.	0
1271	A self adaptive object oriented implementation of an analog ARTMAP neural network.	
1270	Investigation of artificial neural networks for voltage stability assessment.	0
1269	Learning chaotic dynamics in recurrent RBF network.	3
1268	.	

1267	Relaxing backpropagation networks as associative memories.	1
1266	Document Analysis Systems. 1995,	3
1265	.	3
1264	Application of Near-Infrared Spectroscopy for Non-Invasive Determination of Blood/Tissue Glucose Using Neural Networks. 1995, 191, 179-190	36
1263	LeRec: a NN/HMM hybrid for on-line handwriting recognition. 1995, 7, 1289-303	79
1262	Representing inter-residue dependencies in protein sequences with probabilistic networks. 1995, 11, 413-22	1
1261	.	8
1260	Digital VLSI backpropagation networks. 1995, 20, 15-23	5
1259	Electroweak measurements using heavy quarks at LEP. 1995, 52, 133-157	6
1258	Neural networks in computational materials science: training algorithms. 1995, 3, 371-390	48
1257	.	5
1256	Probable networks and plausible predictions: a review of practical Bayesian methods for supervised neural networks. 1995, 6, 469-505	240
1255	Detection of compositional constraints in nucleic acid sequences using neural networks. 1995, 11, 29-37	
1254	Back propagation neural networks: Theory and applications for food science and technology. 1995, 37, 2151-2168	
1253	Early bankruptcy detection using neural networks. 1995, 25, 171-178	1
1252	Artificial neural network based hourly load forecasting for decentralized load management.	3
1251	Artificial Neural Networks and Durability of Sphinx Limestone. 1995, 7, 174-177	3
1250	LGANN: a parallel system combining a local genetic algorithm and neural networks for the prediction of secondary structure of proteins. 1995, 11, 253-60	6

1249	Prediction of zinc finger DNA binding protein. 1995 , 11, 125-31	1
1248	Impact toughness of CMn steel arc welds [Bayesian neural network analysis. 1995 , 11, 1046-1051	63
1247	CONNECTIONISM AND THE EMERGENCE OF KNOWLEDGE. 1995 , 6, 170-175	
1246	Measuring the Difficulty of Specific Learning Problems. 1995 , 7, 81-92	4
1245	Predicting phosphorus nuclear magnetic resonance (NMR) shifts using neural networks. 3. Element-value optimizing (EVO) network architectures. 1995 , 35, 806-814	6
1244	Neural network information criterion for the optimal number of hidden units.	13
1243	Multiple-valued logic design using multiple-valued EXOR.	
1242	Development of a connectionist expert system to identify foot problems based on under-foot pressure patterns. 1995 , 10, 385-391	14
1241	Thermal monitoring for control of adsorptive based clean-up in water treatment. 1995 , 29, 2186-2194	5
1240	An artificial neural system for closed loop control of locomotion produced via neuromuscular electrical stimulation. 1995 , 19, 231-7	5
1239	Interpretation of nonstress tests by an artificial neural network. 1995 , 172, 1372-9	27
1238	Analysing the past and managing the future using neural networks. 1995 , 27, 325-338	9
1237	Prediction of solar and geomagnetic activity data using neural networks. 1995 , 100, 21735-21744	27
1236	Support-Vector Networks. 1995 , 20, 273-297	1313
1235	. 1995 , 44, 769-779	13
1234	COMPARISON OF ARTIFICIAL INTELLIGENCE METHODS FOR MODELING PHARMACEUTICAL QSARS. 1995 , 9, 213-233	21
1233	Conflict, receiver bias and the evolution of signal form. 1995 , 349, 337-44	53
1232	BACK MATTER. 1995 , 163-187	

1231	Neural network based chattering free sliding mode control.	21
1230	Galaxies, human eyes, and artificial neural networks. 1995 , 267, 859-62	68
1229	Scheduling of linear controllers for X-29 by neural network and genetic algorithm. 1995 ,	2
1228	Nonlinear system identification using neural state space models, applicable to robust control design. 1995 , 62, 129-152	53
1227	Application of recurrent neural network for active filter.	1
1226	A learning machine that evolves.	2
1225	Neural nets for decoding error-correcting codes.	9
1224	.	
1223	Minimum energy driving a flexible link hammer using neural networks.	0
1222	Self partitioning backpropagation network for target recognition.	
1221	Prediction of wind load distribution for air-supported structures using neural networks. 1995 , 22, 453-461	17
1220	On sequential construction of binary neural networks. 1995 , 6, 678-90	25
1219	Neural network construction via a linear program.	
1218	Using data preprocessing and single layer perceptron to analyze laboratory data. 1995 , 222, 75-81	4
1217	.	4
1216	Canonical piecewise-linear networks. 1995 , 6, 43-50	27
1215	Fuzzy Logic and Intelligent Systems. 1995 ,	
1214	The backpropagation neural network--a Bayesian classifier. Introduction and applicability to pharmacokinetics. 1995 , 29, 69-79	12

1213	An efficient constrained training algorithm for feedforward networks. 1995 , 6, 1420-34	47
1212	Fuzzy reinforcement compliance control for robotic assembly.	2
1211	The polynomial neural network. 1995 , 87, 231-246	2
1210	Neuromodulation and cortical function: modeling the physiological basis of behavior. 1995 , 67, 1-27	433
1209	Introduction to neural networks. 1995 , 346, 1075-9	391
1208	20th International Symposium on Ultrasonic Imaging and Tissue Characterization. Arlington, Virginia, June 7-9, 1995. Abstracts. 1995 , 17, 45-82	
1207	Support-vector networks. 1995 , 20, 273-297	27017
1206	. 1995 , 33, 684-691	19
1205	. 1995 , 33, 971-980	43
1204	Neural networks: a bridge between neuroscience and psychology. 1995 , 1, 168-73	3
1203	A computationally efficient technique for discriminating between hand-written and printed text. 1995 ,	7
1202	Motor cortex activity and predicting side of movement: neural network and dipole analysis of pre-movement magnetic fields. 1995 , 188, 81-4	37
1201	A study on traffic sign recognition in scene image using genetic algorithms and neural networks.	62
1200	Heterogeneous artificial neural network for short term electrical load forecasting. 1996 , 11, 397-402	55
1199	A Neural Structure-Odor Threshold Model for Chemicals of Environmental and Industrial Concern. 1996 , 97-117	
1198	A New Nonlinear Neural Mapping Technique for Visual Exploration of QSAR Data. 1996 , 223-253	4
1197	Combining Fuzzy Clustering and Neural Networks to Predict Protein Structural Classes. 1996 , 255-279	6
1196	N. 1996 , 427-465	

1195	Strengths and Weaknesses of the Backpropagation Neural Network in QSAR and QSPR Studies. 1996 , 1-46	38
1194	AUTOLOGP Versus Neural Network Estimation of n-Octanol/Water Partition Coefficients. 1996 , 47-63	1
1193	Active Learning for Vision-Based Robot Grasping. 1996 , 23, 251-278	
1192	A 1.2 GFLOPS neural network chip for high-speed neural network servers. 1996 , 31, 860-864	6
1191	FASY: a fuzzy-logic based tool for analog synthesis. 1996 , 15, 705-715	44
1190	. 1996 , 84, 733-752	25
1189	Environment representation using multiple abstraction levels. 1996 , 84, 1684-1704	5
1188	Using acoustic structure in a hand-held audio playback device. 1996 , 35, 453-472	1
1187	High speed vision-based quality grading of oranges.	11
1186	Structure-odor relationships: using neural networks in the estimation of camphoraceous or fruity odors and olfactory thresholds of aliphatic alcohols. 1996 , 36, 108-13	36
1185	Adaptive sensor models.	3
1184	Neuro-fuzzy techniques in the recognition of written Arabic characters.	3
1183	Joint Neural Network Interpretation of Infrared and Mass Spectra. 1996 , 36, 249-257	34
1182	Identification of structural features from mass spectrometry using a neural network approach: application to trimethylsilyl derivatives used for medical diagnosis. 1996 , 36, 637-43	17
1181	Estimation of optical constants of thin film by the use of artificial neural networks. 1996 , 35, 5035-9	6
1180	Determination of Major Compounds of Alcoholic Fermentation by Middle-Infrared Spectroscopy: Study of Temperature Effects and Calibration Methods. 1996 , 50, 1325-1330	37
1179	The representation of shape in the temporal lobe. 1996 , 76, 99-116	8
1178	Suppression of synaptic transmission may allow combination of associative feedback and self-organizing feedforward connections in the neocortex. 1996 , 79, 153-61	53

1177	Application of neural networks to modelling nonlinear relationships in ecology. 1996 , 90, 39-52	500
1176	Classifying soil structure using neural networks. 1996 , 92, 101-108	63
1175	Adult rat vigilance states discrimination by artificial neural networks using a single EEG channel. 1996 , 59, 1051-60	19
1174	Computer assisted interpretation of laboratory test data with 'MDI-LabLink'. 1996 , 248, 107-18	7
1173	Relearning after damage in connectionist networks: toward a theory of rehabilitation. 1996 , 52, 25-82	195
1172	Voltage stability assessment and enhancement using artificial neural networks and reactive compensation.	5
1171	Active learning for vision-based robot grasping. 1996 , 23, 251-278	33
1170	Informational properties of neural nets performing algorithmic and logical tasks. 1996 , 74, 549-55	
1169	Revealing the distinction between perception and cognition through intra-individual variability of visual evoked responses. 1996 , 40, 169-78	3
1168	Enhancing MLP networks using a distributed data representation. 1996 , 26, 143-9	8
1167	Fuzzy systems with defuzzification are universal approximators. 1996 , 26, 149-52	125
1166	Remote sensing of forest change using artificial neural networks. 1996 , 34, 398-404	140
1165	Advantages and disadvantages of using artificial neural networks versus logistic regression for predicting medical outcomes. 1996 , 49, 1225-31	1019
1164	Neural network prediction of some classes of tokamak disruptions. 1996 , 36, 1009-1017	48
1163	Bayesian Methods for Backpropagation Networks. 1996 , 211-254	43
1162	Bayesian Learning for Neural Networks. 1996 ,	1058
1161	SSME condition monitoring using neural networks and plume spectral signatures. 1996 ,	
1160	¹³ C NMR Chemical Shift Prediction of sp ² Carbon Atoms in Acyclic Alkenes Using Neural Networks. 1996 , 36, 644-653	36

1159	Optimization of Functional Group Prediction from Infrared Spectra Using Neural Networks. 1996 , 36, 69-81	29
1158	COMPSTAT. 1996 ,	
1157	A neural network model of a contact plasma etch process for VLSI production. 1996 , 9, 95-100	21
1156	Three versions of a digital hardware implementation of a multi-layer perceptron in 0.7 μ m CMOS-design.	
1155	Optimization of electromagnetic devices using artificial neural network with quasi-Newton algorithm. 1996 , 32, 1226-1229	11
1154	Detection and recognition of traffic sign in scene image using genetic algorithms and neural networks.	0
1153	Neural network model based on weights and unit-offset control.	
1152	Robust BP theory and algorithms based on several kinds of error estimators.	
1151	Electric power systems transient stability analysis by neural networks.	1
1150	A neuro-fuzzy computing model of human pattern generation.	0
1149	.	1
1148	Fuzzy inference based on a weighted average of fuzzy sets and its application to ATM network control.	1
1147	The pandemonium system of reflective agents. 1996 , 7, 97-106	19
1146	Bibliography. 1996 , 262-279	
1145	Optimal and Suboptimal Pattern Allocation Schemes for Backpropagation Learning on a Heterogeneous Processor Network. 1996 , 4, 227-234	
1144	Dynamic learning rate neural network training and delamination detection. 1996 ,	1
1143	A Scratch-Expression of Calligraphy Characters Using Fractals. 1996 , 8, 558-566	2
1142	References. 1996 , 355-390	

1141	An intelligent diagnostic system for the assessment of gestational age based on ultrasonic fetal head measurements. 1996 , 4, 223-231	5
1140	Parallelization of an evolutionary neural network optimizer based on PVM. 1996 , 351-354	2
1139	A canonical microfunction for learning perceptual invariances. 1996 , 25, 207-20	42
1138	Neural Net Classifiers for Communication Systems: A Review. 1996 , 13, 3-10	
1137	Neural network applications in sensor fusion for an autonomous mobile robot. 1996 , 263-278	2
1136	Neural net target-tracking system using structured laser patterns. 1996 ,	1
1135	Sensor Algorithms of the Plasma Vertical Position to Avoid a Vertical Displacement Event During Plasma-Current Quench on JT-60U. 1996 , 30, 237-250	18
1134	On Emergent Evolution of Holon Networks Using an Autonomous Decentralized Method. 1996 , 29, 4166-4171	
1133	Helicopter Station-Keeping Using Fuzzy Logic Control and Neural Networks. 1996 , 29, 7522-7527	
1132	Fuzzy Control for Fruit Storage Optimization Using Neural Networks and Genetic Algorithms. 1996 , 29, 877-882	
1131	AI in the Feedback Loop: A Survey of Alternative Approaches. 1996 , 29, 185-196	
1130	A Reduced Memory Marquardt Algorithm for Training Feedforward Neural Networks. 1996 , 29, 4162-4165	
1129	Artificial olfactory system using neural network. 1996 , 3, 263-272	8
1128	Neural Networks in Enzymology. 1996 , 15, 47-57	4
1127	A predictive index of axillary nodal involvement in operable breast cancer. 1996 , 73, 1241-7	30
1126	Estimating Gas Turbine Internal Cycle Parameters Using a Neural Network. 1996 ,	7
1125	Vision and neural control for an orange harvesting robot.	9
1124	Understanding normal and impaired word reading: computational principles in quasi-regular domains. 1996 , 103, 56-115	2164

1123	Solving the AGV Problem via a Self-Organizing Neural Network. 1996 , 47, 1477-1493	4
1122	Mutual information maximization: models of cortical self-organization. 1996 , 7, 7-31	23
1121	PREDICTION OF PEAK HORIZONTAL ACCELERATION USING AN ARTIFICIAL NEURAL NETWORK MODEL. 1996 , 1996, 19-26	1
1120	.	1
1119	Neuro-ASIC for low cost supervision of water pollution.	0
1118	Nonlinearity creates linear independence. 1996 , 5, 189-203	16
1117	An artificial neural network (ANN) based software package for classification of remotely sensed data. 1996 , 22, 81-87	16
1116	On data-based modelling techniques for fermentation processes. 1996 , 31, 147-155	50
1115	Application of the fuzzy ARTMAP neural network model to medical pattern classification tasks. 1996 , 8, 403-28	49
1114	Prediction of the mechanical properties of hot-rolled C?Mn steels using artificial neural networks. 1996 , 57, 332-336	28
1113	Artificial neural networks for neutron source localization within sealed tanks. 1996 , 23, 1477-1488	6
1112	Prognose von 15 Zeitreihen der DGOR mit Neuronalen Netzen. 1996 , 18, 117-125	1
1111	Neural network prediction of relapse in breast cancer patients. 1996 , 4, 105-113	6
1110	The application of an artificial neural network to Doppler ultrasound waveforms for the classification of arterial disease. 1996 , 13, 85-91	22
1109	Neural network analysis of flow cytometry immunophenotype data. 1996 , 43, 803-10	21
1108	DCRVQ: a new strategy for efficient entropy coding of vector-quantized images. 1996 , 44, 696-706	4
1107	Neural network analysis of the diffusional limitations in activated sludge flocs. 1996 , 31, 753-763	1
1106	A new approach to the analysis of the human sleep/wakefulness continuum. 1996 , 5, 201-10	62

1105	Nonlinear and direction-dependent dynamic process modelling using neural networks. 1996 , 143, 44-48	16
1104	Improved prediction of IF2 and IG indices using neural networks. 1996 , 143, 341	
1103	Adaptive step edge model for self-consistent training of neural network for probabilistic edge labelling. 1996 , 143, 41	6
1102	Analysis of Multispectral Microscope Images Using Neural Networks. 1996 , 24, 173-180	5
1101	Quantitative structure-enantioselectivity relationships using neural networks. Bioconversion of carbonyl compounds using baker's yeast. 1996 , 9, 672-676	4
1100	NEW REGULARIZATION BY TRANSFORMATION FOR NEURAL NETWORK BASED INVERSE ANALYSES AND ITS APPLICATION TO STRUCTURE IDENTIFICATION. 1996 , 39, 3953-3968	34
1099	Comparison of different neural network algorithms in the diagnosis of acute appendicitis. 1996 , 40, 227-33	20
1098	Enhancing the non-linear modelling capabilities of MLP neural networks using spread encoding. 1996 , 79, 113-126	13
1097	Representation theory and invariant neural networks. 1996 , 69, 33-60	6
1096	Constitutive modeling of concrete using a new failure criterion. 1996 , 58, 1003-1014	13
1095	Back-propagation is not Efficient. 1996 , 9, 1017-1023	46
1094	Approximating vertical vector fields for feedforward neural networks. 1996 , 9, 61-64	5
1093	Development of adaptive neural networks for flexible control of batch processes. 1996 , 63, 65-77	1
1092	Application of neural networks to lysine production. 1996 , 62, 207-214	12
1091	A neural network based diagnostic test system for armored vehicle shock absorbers. 1996 , 11, 237-244	6
1090	Estimation of acoustic emission source waveform of fracture using a neural network. 1996 , 29, 21-25	10
1089	Intelligent control for a plant production system. 1996 , 4, 773-784	40
1088	Neural networks and logistic regression: Part I. 1996 , 21, 661-682	108

1087	Using case-based reasoning approach to the support of ill-structured decisions. 1996 , 93, 511-521	12
1086	Use of a neural network to exploit light division in a triangular scintillating crystal. 1996 , 373, 111-118	16
1085	Elaboration of a neural network system for semi-batch reactor temperature control: an experimental study. 1996 , 35, 225-234	12
1084	Classification of ASAS multiangle and multispectral measurements using artificial neural networks. 1996 , 57, 79-87	54
1083	Extracting forest age in a Pacific Northwest forest from Thematic Mapper and topographic data. 1996 , 56, 133-140	35
1082	Binary decision clustering for neural-network-based optical character recognition. 1996 , 29, 425-437	13
1081	Nonlinear one-step-ahead control using neural networks: Control strategy and stability design. 1996 , 32, 1701-1706	38
1080	AI in the feedback loop: a survey of alternative approaches. 1996 , 20, 71-82	3
1079	Feature-based cost estimation for packaging products using neural networks. 1996 , 32, 95-113	44
1078	Varieties of Helmholtz Machine. 1996 , 9, 1385-1403	107
1077	A multi-layered backpropagation artificial neural network algorithm for UV spectral classification. 1996 , 239, 361-373	2
1076	Modelling the Belgian gas consumption using neural networks. 1996 , 4, 157-166	19
1075	Artificial neural network based robot control: An overview. 1996 , 15, 333-365	19
1074	Stochastic models that predict trout population density or biomass on a mesohabitat scale. 1996 , 337, 1-9	46
1073	A neural network model for the free-ranging AGV route-planning problem. 1996 , 7, 217-227	14
1072	Successful naïve representation grounding. 1996 , 10, 83-102	1
1071	A predictor of transmembrane alpha-helix domains of proteins based on neural networks. 1996 , 24, 165-78	21
1070	Selection of input variables for model identification of static nonlinear systems. 1996 , 16, 185-207	5

- 1069 Adaptive internal activation functions and their effect on learning in feed forward networks. **1996**, 4, 29-38
- 1068 A parallel correlation learning by threshold fluctuation for multilayered perceptrons. **1996**, 27, 37-45
- 1067 Control of associative dynamics by matching features in chaotic neural network. **1996**, 27, 47-54 0
- 1066 Influence of noises added to hidden units on learning of multilayer perceptrons and structurization of networks. **1996**, 27, 64-73 2
- 1065 Applications of artificial neural networks to the nonlinear combination of forecasts. **1996**, 13, 195-201 19
- 1064 APPLICATION of ARTIFICIAL NEURAL NETWORKS to INVESTIGATE the DRYING of COOKED RICE. **1996**, 19, 321-329 30
- 1063 Modelling inter-urban transport flows in Italy: A comparison between neural network analysis and logit analysis. **1996**, 4, 323-338 47
- 1062 Sliding mode control with estimated equivalent control for MIMO affine nonlinear systems. 1
- 1061 Modélisation de la relation pluie-débit à l'aide des réseaux de neurones artificiels. **1996**, 9, 319-331 4
- 1060 Experimentally determined weight matrix definitions of the initiator and TBP binding site elements of promoters. **1996**, 24, 1531-9 47
- 1059 HTP: a neural network-based method for predicting the topology of helical transmembrane domains in proteins. **1996**, 12, 41-8 6
- 1058 An Integrated Model for Adaptive Intersection Signal Control. **1996**, 3, 225-248
- 1057 Hamming-Clustering method for signals prediction in 5' and 3' regions of eukaryotic genes. **1996**, 12, 399-404 15
- 1056 Recent Advances in Robot Learning. **1996**, 1
- 1055 Signal classification using wavelets and neural networks. **1996**, 4
- 1054 A mathematical solution to a network designing problem. **1996**, 3, 97-141 2
- 1053 Analysis of structure-toxicity relationships for a series of amide herbicides using statistical methods and neural network. **1996**, 5, 269-79 24
- 1052 Computerized analysis for classification of heart diseases in echocardiographic images.

1051 Comparison of brain structure to a backpropagation-learned-structure.

1050 Models of Neural Networks III. **1996**, 7

1049 Artificial Neural Networks for Modelling and Control of Non-Linear Systems. **1996**, 175

1048 Detection of brain conditions from evoked responses using artificial neural networks. **1996**, 2

1047 Development of partial discharge monitoring technique using a neural network in a gas insulated substation.

1046 A PLS-BPN Pattern Recognition Method Applied to Computer-Aided Materials Design. **1996**, 29, 341-350 6

1045 The Effects of Adding Noise During Backpropagation Training on a Generalization Performance. **1996**, 8, 643-674 230

1044 Mirroring our thought processes [recurrent neural network and time series in forecasting]. **1996**, 14, 36-41

1043 A learning method of hidden Markov models for sequence discrimination. **1996**, 3, 361-73 15

1042 A Neural Network Model for Prediction of Binary Adsorption Using Single Solute and Limited Binary Solute Adsorption Data. **1996**, 31, 1259-1265 9

1041 From conventional control to autonomous intelligent methods. **1996**, 16, 78-84 10

1040 Fuzzy Modelling. **1996**, 67

1039 Application of multilayered neural networks to ocean acoustic tomography inversions. **1996**, 3, 281-304 2

1038 Connectionism and Neural Networks. **1996**, 135-155 4

1037 Applicant Evaluation in an Executive MBA Program. **1996**, 71, 277-283 13

1036 18 Financial applications of Artificial Neural Networks. **1996**, 529-552 13

1035 Yearbook of Intensive Care and Emergency Medicine. **1996**, 1

1034 Bayesian Non-Linear Modeling for the Prediction Competition. **1996**, 221-234 15

1033	A novel neural-network-related approach for regression analysis with interval model.	0
1032	Tracking endocardial border motion in ultrasonic images by using neural networks and ARIMA modelling techniques.	
1031	Neural inversion of Gastom'90 tomographic data.	
1030	.	2
1029	Vision-based robot localization without explicit object models.	24
1028	Boundedness of estimator with an improved back propagation algorithm.	2
1027	Learning and generalization in cascade network architectures. 1996 , 8, 1521-39	14
1026	A feedforward neural filter for image processing.	
1025	Solving the AGV Problem via a Self-Organizing Neural Network. 1996 , 47, 1477	
1024	Application of neural network interval regression method for minimum zone circle roundness. 1997 , 8, 245-252	9
1023	Analysis of Dynamical Recognizers. 1997 , 9, 1127-1142	29
1022	A Bound on the Error of Cross Validation Using the Approximation and Estimation Rates, with Consequences for the Training-Test Split. 1997 , 9, 1143-1161	33
1021	The prospects for analogue neural VLSI. 1997 , 8, 559-79	7
1020	Self-regulation of model order in feedforward neural networks.	1
1019	Noise and randomlike behavior of perceptrons: Theory and application to protein structure prediction. 1997 , 55, 7334-7343	7
1018	Glove-talk II - a neural-network interface which maps gestures to parallel formant speech synthesizer controls. 1997 , 8, 977-84	13
1017	Calliper randomization: an artificial neural network based analysis of E. coli ribosome binding sites. 1997 , 15, 611-7	4
1016	Development of partial discharge monitoring technique using a neural network in a gas insulated substation. 1997 , 12, 1014-1021	9

1015	Electric field optimization of high voltage electrode based on neural network. 1997 , 12, 1413-1418	5
1014	Neural network learning of variable grid-based maps for the autonomous navigation of robots.	2
1013	Modifiable neuronal connections: an overview for psychiatrists. 1997 , 154, 156-64	41
1012	'TransMem': a neural network implemented in Excel spreadsheets for predicting transmembrane domains of proteins. 1997 , 13, 231-4	12
1011	Feedforward neural networks in the classification of financial information. 1997 , 3, 183-202	30
1010	Development of Concrete Bridge Rating Prototype Expert System with Machine Learning. 1997 , 11, 238-247	28
1009	In search of common foundations for cortical computation. 1997 , 20, 657-83; discussion 683-722	338
1008	Modified EBP algorithm with instant training of the hidden layer.	2
1007	Parallel implementation of backpropagation neural network on a heterogeneous ring processor topology.	1
1006	High-performance simulation of neural networks.	
1005	A comparison of backpropagation and statistical classifiers for bird identification.	9
1004	Reinforcement learning when visual sensory signals are directly given as inputs.	2
1003	A feedforward MNN controller for pneumatic cylinder trajectory tracking control.	2
1002	Unsupervised discovery of invariances. 1997 , 8, 441-452	5
1001	Article. 1997 , 24, 1030-1039	13
1000	Feed-forward multilayer neural network model for vehicle lateral guidance control. 1997 , 12, 735-753	3
999	Basic concepts of artificial neural networks (ANN) modeling in the application to pharmaceutical development. 1997 , 2, 95-109	59
998	EsteMate: a tool for automated power and area estimation in analog top-down design and synthesis.	5

997	Prediction of Partition Coefficients (LOG P oct) Using Autocorrelation Descriptors. 1997 , 7, 151-172	23
996	Dynamic Learning Rate Neural Network Training and Composite Structural Damage Detection. 1997 , 35, 1522-1527	30
995	Automatic Fuzzy Modeling for Ginjo Sake Brewing Process using Fuzzy Neural Networks.. 1997 , 30, 94-100	28
994	Comparison between conventional and neural network classifiers for rat sleep-wake stage discrimination. 1997 , 35, 221-5	8
993	Constraint directed learning for unsupervised image sequence segmentation.	
992	A Pattern Generation Model Based on Neural Network. 1997 , 9, 908-916	
991	Application of Neural Network and Genetic Algorithm in Architecture. 1997 , 9, 190-197	
990	Direct, inverse, and combined problems in complex engineered system modeling by artificial neural networks. 1997 ,	1
989	Basal ganglia: structure and computations. 1997 , 8, R77-R109	24
988	Neural fault diagnosis techniques for nonlinear analog circuit. 1997 ,	4
987	An empirical comparison of dimensionality reduction techniques for pattern classification. 1997 , 589-594	4
986	Neural networks on fatigue damage prediction.	
985	Trading spaces: computation, representation, and the limits of uninformed learning. 1997 , 20, 57-66; discussion 66-90	384
984	Neural network modelling of chloride binding. 1997 , 49, 323-335	55
983	Awards for distinguished scientific contributions: James L. McClelland and David E. Rumelhart.. 1997 , 52, 810-812	
982	Long-term semantic priming: A computational account and empirical evidence.. 1997 , 23, 1059-1082	202
981	The long and short of semantic priming effects in lexical decision.. 1997 , 23, 1083-1105	111
980	Neural network estimation of the flowfield structure of spatially excited jets. 1997 ,	

- 979 Neurofilters: neural networks for image processing. **1997**, 3101, 74
- 978 Neural network estimation of disturbance growth using a linear stability numerical model. **1997**, 9
- 977 Identification and Adaptive Control of Dynamic Systems Using Self-Organized Distributed Networks. **1997**, 30, 91-96
- 976 Identification of Cumulative Fruit Responses During the Storage Process Using Neural Networks. **1997**, 30, 1481-1486 2
- 975 Non-Linear Black Box Models in System Identification. **1997**, 30, 1-12 2
- 974 Identification of Heat Treatment Effect on Fruit Ripening and its Optimization. **1997**, 30, 267-272 1
- 973 Modeling Robot Dynamics Using Dynamic Neural Networks. **1997**, 30, 755-759 3
- 972 Intelligent Control of Robotic Manipulator Using Neural Networks. **1997**, 30, 849-854
- 971 Lane Occupation Models in Motorway Sections Before A Toll-Gate Station. **1997**, 30, 1387-1392 2
- 970 Perceptual Learning From Cross-Modal Feedback. **1997**, 309-351 5
- 969 References. **1997**, 121, 539-581
- 968 Adaptive supervised learning decision networks for traders and portfolios. 1
- 967 NEURAL-NETWORK-AIDED DESIGN OF AUTOMOBILE EXHAUST CATALYSTS. **1997**, 156, 147-160 4
- 966 Nonlinear backpropagation: doing backpropagation without derivatives of the activation function. **1997**, 8, 1321-7 13
- 965 The Sonda Project: prevention, prediction, and psychological disorder. **1997**, 32, 1053-153 4
- 964 Pre-production results demonstrating multiple-system models for yield analysis. **1997**, 10, 469-481 1
- 963 A genetic algorithm for task distribution.
- 962 Neural networks based traffic prediction for cell discarding policy. 0

961	Learning algorithms for suppressing motion clutter in airborne array radar.	1
960	Optimizing wavelet transform coding using a neural network.	0
959	Artificial neural networks controlled fast valving in a power generation plant. 1997 , 8, 373-89	10
958	Application of a neural network for detection at strong nonlinear intersymbol interference. 1997 , 33, 2794-2796	3
957	Induced specialization of context units for temporal pattern recognition and reproduction.	2
956	PDP networks can provide models that are not mere implementations of classical theories. 1997 , 10, 25-40	23
955	Artificial neural network applied for predicting rainbow trajectories in atomic and molecular classical collisions. 1997 , 107, 9954-9959	7
954	Trajectory tracking with dynamic neural networks.	7
953	One application of neural networks for detection of defects using video data bases: identification of road distresses.	9
952	Pneumatic cylinder trajectory tracking control using a feedforward multilayer neural network.	3
951	An iterative pruning algorithm for feedforward neural networks. 1997 , 8, 519-31	167
950	Using neural network predicted secondary structure information in automatic protein NMR assignment. 1997 , 37, 1086-94	21
949	An Application of Artificial Neural Networks. Simultaneous Determination of the Concentration of Sulfur Dioxide and Relative Humidity with a Single Coated Piezoelectric Crystal. 1997 , 69, 699-702	10
948	¹³ C NMR Chemical Shift Prediction of the sp ³ Carbon Atoms in the β Position Relative to the Double Bond in Acyclic Alkenes. 1997 , 37, 587-598	29
947	Serial Order: A Parallel Distributed Processing Approach. 1997 , 471-495	164
946	Neural networks as 'software sensors' in enzyme production. 1997 , 52, 257-66	52
945	Generative models for discovering sparse distributed representations. 1997 , 352, 1177-90	137
944	The application of back-propagation neural network to automatic picking seismic arrivals from single-component recordings. 1997 , 102, 15105-15113	67

943	Diagnosis of CMOS op-amps with gate oxide short faults using multilayer perceptrons. 1997 , 16, 930-935	1
942	Fuzzy connection admission control for ATM networks based on possibility distribution of cell loss ratio. 1997 , 15, 179-190	19
941	. 1997 , 45, 1619-1637	34
940	Birdsong recognition using backpropagation and multivariate statistics. 1997 , 45, 2740-2748	69
939	Comparing support vector machines with Gaussian kernels to radial basis function classifiers. 1997 , 45, 2758-2765	762
938	Stabilization centers in proteins: identification, characterization and predictions. 1997 , 272, 597-612	130
937	Thermal monitoring of phenoxyacid herbicide adsorption on granular activated carbon. 1997 , 31, 2356-2362	15
936	Application of back-propagation neural networks to identification of seismic arrival types. 1997 , 101, 177-188	10
935	Response of the auroral electrojets to the solar wind modeled with neural networks. 1997 , 102, 14269-14278	54
934	Diagnosis of multifaults in analogue circuits using multilayer perceptrons. 1997 , 144, 149	25
933	Artificial neural networks applied to outcome prediction for colorectal cancer patients in separate institutions. 1997 , 350, 469-72	153
932	Artificial neural networks as a classification method in the behavioural sciences. 1997 , 40, 35-43	64
931	Information: In the stimulus or in the context?. 1997 , 20, 698-700	4
930	Learning an integral equation approximation to nonlinear anisotropic diffusion in image processing. 1997 , 19, 342-352	25
929	Parallel implementation of backpropagation neural networks on a heterogeneous array of transputers. 1997 , 27, 118-26	10
928	Linear motor motion control using a learning feedforward controller. 1997 , 2, 179-187	143
927	Predicting total health care costs of medicaid recipients: An artificial neural systems approach. 1997 , 40, 191-197	8
926	Is synchronization necessary and is it sufficient?. 1997 , 20, 683-684	21

- 925 The dynamics of cumulative knowledge. **1997**, 20, 76-77 1
- 924 Prospects for automatic recoding of inputs in connectionist learning. **1997**, 20, 81-82
- 923 Progress toward an understanding of cortical computation. **1997**, 20, 703-714 28
- 922 Nonlinear computation and dynamic cognitive generalities. **1997**, 20, 688-689
- 921 Taming type-2 tigers: A nonmonotonic strategy. **1997**, 20, 66-67 38
- 920 Informed learning and conceptual structure: Putting the Birdness back in the bird. **1997**, 20, 75-76
- 919 Evolution's gift is the right account of the origin of recoding functions. **1997**, 20, 83-83
- 918 Topologic organization of context fields for sensorimotor coordination. **1997**, 20, 693-693
- 917 Information theory: The Holy Grail of cortical computation?. **1997**, 20, 698-698 3
- 916 On the normalization of coherent contrast and the semantics of synchronization. **1997**, 20, 697-698
- 915 Binding by synchronisation: A task-dependence hypothesis. **1997**, 20, 685-686 1
- 914 Type-2 problems are difficult to learn, but generalize well (in general). **1997**, 20, 73-73
- 913 Word recognition in the split brain and PET studies of spatial stimulus-response compatibility support contextual integration. **1997**, 20, 690-691
- 912 Internal context and top-down processing. **1997**, 20, 691-692 1
- 911 Reducing problem complexity by analogical transfer. **1997**, 20, 71-72 32
- 910 Recoding can lead to inaccessible structures, but avoids capacity limitations. **1997**, 20, 75-75
- 909 Glossing over too much. **1997**, 20, 692-692
- 908 Neural computation, architecture, and evolution. **1997**, 20, 80-80

- 907 Why computation need not be traded only for internal representation. **1997**, 20, 80-81
- 906 Schizophrenia as a model of context-deficient cortical computation. **1997**, 20, 696-697 56
- 905 Extracting higher-level relationships in connectionist models. **1997**, 20, 77-77
- 904 Support for grouping-by-synchronization, the context-field, and its mechanisms, but doubt in the use of information theory by the cortex. **1997**, 20, 686-687
- 903 Principles of cortical synchronization. **1997**, 20, 689-690 21
- 902 Data coding takes place within a context. **1997**, 20, 77-78
- 901 Synthesizing synchrony versus dissecting dissonance. **1997**, 20, 700-700
- 900 Epistemological missing links. **1997**, 20, 70-71 1
- 899 Synchronization, binding, multiscale dynamic processing, and neuron sociology. **1997**, 20, 694-695
- 898 Old ideas, new mistakes: All learning is relational. **1997**, 20, 79-80
- 897 On the computational basis of synchronized codes. **1997**, 20, 700-701
- 896 Do the biological details matter?. **1997**, 20, 684-685 0
- 895 Of ants and academics: The computational power of external representation. **1997**, 20, 78-79
- 894 Local attractor dynamics will introduce further information to synchronous neuronal fields. **1997**, 20, 701-702 4
- 893 Parity is not a generalisation problem. **1997**, 20, 69-70
- 892 Context dependent feature groups, a proposal for object representation. **1997**, 20, 702-703
- 891 Synchronizing oscillations: Coding by concurrence and by sequence. **1997**, 20, 690-690
- 890 Relational learning re-examined. **1997**, 20, 83-83 1

889	Synchronicity and its use in the brain. 1997 , 20, 695-696	6
888	Cognitive success and exam preparation. 1997 , 20, 72-73	
887	An internal teacher for neural computation. 1997 , 20, 687-688	
886	Relational problems are not fully solved by a temporal sequence of statistical learning episodes. 1997 , 20, 82-82	2
885	'Tis all in pieces (separate RFs and CFs), all coherence gone. 1997 , 20, 693-694	
884	Constraining solution space to improve generalization. 1997 , 20, 67-68	
883	Model-based learning problem taxonomies. 1997 , 20, 73-74	
882	Trading spaces: A promissory note to solve relational mapping problems. 1997 , 20, 74-74	
881	Decoding visual information from a population of retinal ganglion cells. 1997 , 78, 2336-50	278
880	What is the type-1/type-2 distinction?. 1997 , 20, 68-69	
879	Neural Networks for the Analysis of Stellar Time Series. 1997 , 808, 214-235	
878	Directions in Connectionist Research: Tractable Computations Without Syntactically Structured Representations. 1997 , 28, 31-62	1
877	Neurobiology. Long-distance long-term depression. <i>Nature</i> , 1997 , 388, 427-8	50.4 9
876	V(D)J recombination. From RAGs to stitches. <i>Nature</i> , 1997 , 388, 428-9	50.4 16
875	Propagation of activity-dependent synaptic depression in simple neural networks. <i>Nature</i> , 1997 , 388, 439-48	50.4 146
874	A mathematical solution to a Network Designing Problem. 1997 , 15, 107-170	
873	An evaluation of machine-learning methods for predicting pneumonia mortality. 1997 , 9, 107-38	122
872	Recognition of patient anaesthetic levels: neural network systems, principal components analysis, and canonical discriminant variates. 1997 , 11, 155-73	10

871	Implementation of intelligent self-organising controllers in DSP controlled electromechanical drives. 1997 , 144, 324-330	5
870	Parameter monitoring using neural-network-processed chromaticity. 1997 , 144, 257-262	3
869	Detection, classification, and superposition resolution of action potentials in multiunit single-channel recordings by an on-line real-time neural network. 1997 , 44, 403-12	84
868	Application of a neural network to granulation scale-up. 1997 , 90, 153-159	22
867	Cardiac risk stratification in renal transplantation using a form of artificial intelligence. 1997 , 79, 415-7	19
866	Applications of artificial neural networks and genetic algorithms to agricultural systems. 1997 , 18, 71-72	44
865	Application of neural networks to the color grading of apples. 1997 , 18, 105-116	79
864	An intelligent approach for optimal control of fruit-storage process using neural networks and genetic algorithms. 1997 , 18, 205-224	34
863	Optimization of heat treatment for fruit during storage using neural networks and genetic algorithms. 1997 , 19, 87-101	51
862	On the role of a mutational database in building artificial intelligence models for understanding gene expression. 1995 , 27, 227-30	
861	Predicting Bond Ratings Using Neural Networks: A Comparison with Logistic Regression. 1997 , 6, 59-72	36
860	Structure and Function in the Lexical System: Insights from Distributed Models of Word Reading and Lexical Decision. 1997 , 12, 765-806	213
859	Learning in Dynamic Decision Tasks: Computational Model and Empirical Evidence. 1997 , 71, 1-35	56
858	Multitask Learning. 1997 , 28, 41-75	2437
857	Brave Robots Use Representation: Emergence of Representation in Fight-or-Flight Learning. 1997 , 7, 475-494	5
856	Diagnosis of chronic liver disease from liver scintiscans by artificial neural networks. 1997 , 11, 75-80	3
855	Sea level forecasts using neural networks. 1997 , 49, 71-99	11
854	Study on uranium I odd parity energy levels using chemical pattern recognition techniques. 1997 , 42, 1883-1886	

853	FDTD/genetic algorithm coupling for antennas optimization. 1997 , 52, 503-508	1
852	Speaker indexing using neural network clustering of vowel spectra. 1997 , 1, 143-149	3
851	Design of a complex system based on the maximum entropy principle. 1997 , 1, 65-68	
850	Nonlinearity identified by neural network models in Pco2 control system in humans. 1997 , 35, 33-9	1
849	Coarse coding: applications to the visual system of salamanders. 1997 , 77, 41-47	8
848	Spatial choice behaviour: logit models and neural network analysis. 1997 , 31, 411-429	3
847	The medium- and short-term prediction methods of strong earthquakes based on neural network. 1997 , 10, 459-467	2
846	Comparison of neural networks and statistical models to predict gestational age at birth. 1997 , 6, 158-164	2
845	The prediction of protein secondary structure with a Cascade Correlation Learning Architecture of neural networks. 1997 , 6, 57-62	5
844	Assessments of the global anthropogenic greenhouse and sulfate signal using different types of simplified climate models. 1997 , 57, 119-124	6
843	Prediction of all India summer monsoon rainfall using error-back-propagation neural networks. 1997 , 62, 225-240	53
842	Stochastic sensitivity analysis and Langevin simulation for neural network learning. 1997 , 57, 71-78	5
841	In-time fatigue monitoring using neural networks. 1997 , 10, 363-387	9
840	Artificial-neural-network-based fast valving control in a power-generation system. 1997 , 10, 139-155	3
839	Optimization of a fuzzy controller for fruit storage using neural networks and genetic algorithms. 1997 , 10, 453-461	23
838	Two artificial neural systems for generation of gait swing by means of neuromuscular electrical stimulation. 1997 , 19, 21-8	20
837	Automated system for structural design using design window search approach: its application to fusion first wall design. 1997 , 28, 103-113	6
836	A simple way to determine the connecting of a multilinear neural network. 1997 , 227, 94-96	

835	Role of design-philosophies in interfacing manufacturing with marketing. 1997 , 103, 453-469	12
834	Statistical properties of random asymmetrical neural networks. 1997 , 241, 481-492	
833	Convergence Suppression and Divergence Facilitation: Minimum and Joint Use of Hidden Units by Multiple Outputs. 1997 , 10, 353-367	7
832	Associative Dynamics in a Chaotic Neural Network. 1997 , 10, 83-98	284
831	Effects of Learning Parameters on Learning Procedure and Performance of a BPNN. 1997 , 10, 1505-1521	66
830	SCAN: A Scalable Model of Attentional Selection. 1997 , 10, 993-1015	51
829	From Brains to Neural Nets to Brains. 1997 , 10, 1241-1255	3
828	An improved time series prediction by applying the layer-by-layer learning method to FIR neural networks. 1997 , 10, 1717-1729	19
827	New Meteosat pattern recognition products for use in weather forecasting. 1997 , 19, 443-446	
826	Identification of parameters in amplitude equations describing coupled wakes. 1997 , 102, 37-56	14
825	Estimations of trout density and biomass: a neural networks approach. 1997 , 30, 4985-4990	6
824	Classification of Cm I energy levels using PCA-BPN and PCA-NLM. 1997 , 220, 289-297	1
823	Prediction of vertical distribution and ambient development temperature of Baltic cod, <i>Gadus morhua</i> L., eggs. 1997 , 6, 172-187	24
822	The use of artificial neural networks to predict the presence of small-bodied fish in a river. 1997 , 38, 237-246	96
821	Artificial neural networks for molecular sequence analysis. 1997 , 21, 237-56	74
820	¹³ C NMR chemical shift sum prediction for alkanes using neural networks. 1997 , 21, 437-443	14
819	Identification of flow faults in continuous reactors by relating linear model parameters and physical magnitudes. 1997 , 21, 631-639	1
818	Application of neural network interval regression method for minimum zone straightness and flatness. 1997 , 20, 196-207	13

817	Identification and classification of autoantibody repertoires (Western blots) with a pattern recognition algorithm by an artificial neural network. 1997 , 18, 1120-5	8
816	Analyse Neuronaler Netze am Beispiel der Dampfdruckkurven von n-Fettalkoholen. 1997 , 99, 129-138	
815	Experimental study on arranging music by chaotic neural network. 1997 , 12, 323-339	3
814	FDTD genetic algorithm for antenna optimization. 1997 , 16, 72-74	6
813	On the solution of the perturbed nonlinear Schrödinger equation for the propagation of light in optical fibers. 1997 , 16, 74-77	1
812	Escape from the slowdown area on training of back-propagation algorithm by using a jumping method. 1997 , 28, 48-57	1
811	Generation and phenotypic characterization of new human ovarian cancer cell lines with the identification of antigens potentially recognizable by HLA-restricted cytotoxic T cells. 1997 , 73, 143-50	22
810	An artificial intelligent diagnostic system on differential recognition of hematopoietic cells from microscopic images. 1997 , 30, 145-50	28
809	Optimal projection to estimate the proportions of the different subsamples in a given mixture sample. 1997 , 104, 37-45	
808	Parallel fuzzy inference based on Π -level sets and generalized means. 1997 , 100, 165-206	12
807	Independent neural network modeling of class analogy for classification pattern recognition and optimization. 1997 , 342, 223-228	8
806	Counterpropagation neural networks for fault detection and diagnosis. 1997 , 21, 177-185	12
805	Prediction of the rate of crossflow membrane ultrafiltration of colloids: A neural network approach. 1998 , 53, 3793-3802	56
804	Video Grading of Oranges in Real-Time. 1998 , 12, 117-136	11
803	NetOglyc: prediction of mucin type O-glycosylation sites based on sequence context and surface accessibility. 1998 , 15, 115-30	412
802	Co-Evolution in the Successful Learning of Backgammon Strategy. 1998 , 32, 225-240	114
801	Emergence and Categorization of Coordinated Visual Behavior Through Embodied Interaction. 1998 , 31, 187-200	16
800	Emergence and Categorization of Coordinated Visual Behavior Through Embodied Interaction. 1998 , 5, 369-379	9

799	Modelling spatial dynamics of fish. 1998 , 8, 57-91	87
798	Artificial neural networks as models of stimulus control. 1998 , 56, 1383-1389	58
797	Rethinking eliminative connectionism. 1998 , 37, 243-82	259
796	Energy availability and habitat heterogeneity predict global riverine fish diversity. <i>Nature</i> , 1998 , 391, 382-384	50.4 272
795	Individuality in the groans of fallow deer (<i>Dama dama</i>) bucks. 1998 , 245, 79-84	81
794	Neural network-based prediction of candidate T-cell epitopes. 1998 , 16, 966-9	154
793	Neural networks as "software sensors" in enzyme engineering. 1998 , 864, 46-58	
792	Application of artificial neural networks to load identification. 1998 , 69, 63-78	76
791	On the determination of probability density functions by using Neural Networks. 1998 , 115, 25-31	5
790	Forecasting with artificial neural networks:: The state of the art. 1998 , 14, 35-62	2410
789	Influence of reactor systems on the morphology of <i>Aspergillus awamori</i> . Application of neural network and cluster analysis for characterization of fungal morphology. 1998 , 33, 601-615	27
788	Orofacial proprioception: analyses of cutaneous mechanoreceptor population properties using artificial neural networks. 1998 , 31, 535-42; 553	23
787	Artificial neural net attractors. 1998 , 22, 143-149	1
786	Toward global optimization of neural networks: A comparison of the genetic algorithm and backpropagation. 1998 , 22, 171-185	163
785	Temperature control of Ginjo sake mashing process by automatic fuzzy modeling using fuzzy neural networks. 1998 , 85, 107-112	28
784	Delayed time series predictions with neural networks. 1998 , 18, 81-89	21
783	Application of radial basis function and feedforward artificial neural networks to the <i>Escherichia coli</i> fermentation process. 1998 , 20, 67-82	40
782	Prognostic factors: guidelines for investigation design and state of the art analytical methods. 1998 , 7, 71-6	11

781	Neural networks for language identification: a comparative study. 1998 , 34, 395-403	4
780	Search for cyclic patterns by a chaotic neural network. 1998 , 29, 1-8	0
779	Fractal characterization of chromatin appearance for diagnosis in breast cytology. 1998 , 185, 366-81	53
778	Predicting peptides that bind to MHC molecules using supervised learning of hidden Markov models. 1998 , 33, 460-74	124
777	Neural network approach to the solution of the inverse problem of plasma boundary determination. 1998 , 89, 1391-1405	
776	Temperature and velocity measurement of a 3-D thermal flow field using thermo-sensitive liquid crystals. 1998 , 1, 145-152	12
775	Three-dimensional distribution analysis of phosphorus content of limestone through a combination of geostatistics and artificial neural network. 1998 , 7, 197-210	9
774	Intelligent fuzzy optimal control of building structures. 1998 , 20, 184-192	23
773	Neural nets for real time analysis of cursive writing. 1998 , 19, 77-83	
772	Exploring neuro-genetic processing of electronic nose data. 1998 , 29, 921-931	16
771	New electrotopological descriptor for prediction of boiling points of alkanes and aliphatic alcohols through artificial neural network and multiple linear regression analysis. 1998 , 22, 515-522	12
770	Neural networks approach to early breast cancer detection. 1998 , 44, 617-633	28
769	Knowledge-based data generation. 1998 , 11, 167-177	2
768	Epsilon focusing strategy for active example selection. 1998 , 10, 441-447	
767	Fuzzy-logic-based Reinforcement Learning of Admittance Control for Automated Robotic Manufacturing. 1998 , 11, 7-23	7
766	Helicopter station-keeping: comparing LQR, fuzzy-logic and neural-net controllers. 1998 , 11, 411-418	18
765	A multisensor array for visualizing continuous state transitions in biopharmaceutical processes using principal component analysis. 1998 , 13, 193-9	15
764	Using neural networks for differential diagnosis of Alzheimer disease and vascular dementia. 1998 , 14, 219-225	8

763	Prediction by a neural network of outer membrane beta-strand protein topology. 1998 , 7, 2413-20	81
762	Dynamic ultrafiltration of proteins [A neural network approach. 1998 , 146, 225-235	51
761	Metric adaption for analog forecasting. 1998 , 253, 379-393	9
760	Learning persistent dynamics with neural networks. 1998 , 11, 145-151	2
759	A modified back-propagation method to avoid false local minima. 1998 , 11, 1059-1072	43
758	An empirical comparison of back propagation and the RDSE algorithm on continuously valued real world data. 1998 , 11, 1685-1694	3
757	Several methods usable in production systems prediction. 1998 , 27, 99-113	1
756	Robust interval regression analysis using neural networks. 1998 , 97, 337-347	40
755	Review of neural network applications in sleep research. 1998 , 79, 187-93	53
754	Application example of neural networks for time series analysis:: Rainfall runoff modeling. 1998 , 64, 383-396	59
753	Image sequence macroblock classification using neural networks. 1998 , 69, 191-198	1
752	Improved batch process performance by evolutionary modelling. 1998 , 36, 271-278	3
751	A medical expert system approach using artificial neural networks for standardized treatment planning. 1998 , 41, 173-82	31
750	Introduction to the modified probabilistic neural network for general signal processing applications. 1998 , 46, 1980-1990	48
749	Predicting local fish species richness in the garonne river basin. 1998 , 321, 423-428	15
748	Neural networks as models of psychopathology. 1998 , 43, 471-82	24
747	A decision support tool for the diagnosis of breast cancer based upon Fuzzy ARTMAP. 1998 , 7, 147-165	7
746	A consensus-function artificial neural network for map-coloring. 1998 , 28, 721-8	5

745	Neural network computer program to determine photorefractive keratectomy nomograms. 1998 , 24, 917-24	11
744	Parallel neural learning by iteratively adjusting error thresholds.	
743	Structural learning of recurrent RBF networks with M-apoptosis.	
742	An adaptive neural fuzzy network model for seasonal stream flow forecasting.	
741	Auditory representations of speech sounds in a neural model: the role of peripheral processing.	
740	International migration destination forecast concerning the region "Lazio". 1998 , 33, 709-16	
739	Learning from examples with quadratic mutual information.	7
738	Dendritic modulation enables multitask representation learning in hierarchical sensory processing pathways.	o
737	Disease Diagnosis Based on Symptoms Description. 2023 , 179-190	o
736	Inversion of the Full-Depth Temperature Profile Based on Few Depth-Fixed Temperatures. 2022 , 14, 5984	o
735	Improving Storage Systems Using Machine Learning.	o
734	Monitoring the extreme flood events in the Yangtze River basin based on GRACE and GRACE-FO satellite data. 2022 , 26, 5933-5954	1
733	An Effective Online Sequential Stochastic Configuration Algorithm for Neural Networks. 2022 , 14, 15601	o
732	A Scaling Transition Method from SGDM to SGD with 2ExpLR Strategy. 2022 , 12, 12023	o
731	A framework for robotic arm pose estimation and movement prediction based on deep and extreme learning models.	o
730	An Incremental Learning Framework for Photovoltaic Production and Load Forecasting in Energy Microgrids. 2022 , 11, 3962	o
729	Deep solar ALMA neural network estimator for image refinement and estimates of small-scale dynamics.	o
728	Dopamine promotes head direction plasticity during orienting movements. 2022 , 612, 316-322	o

727	Distributed Optimization in Machine Learning. 2023 , 1-12	0
726	Optimal control in disordered quantum systems. 2022 , 4,	0
725	Using a classification model for determining the value of liver radiological reports of patients with colorectal cancer. 12,	0
724	From cognitive maps to spatial schemas.	0
723	Merging gated Frequency-Modulated Continuous-Wave Mars2020 RIMFAX GPR data. 1-21	0
722	Deep Machine Learning for Forecasting Daily Potential Evapotranspiration in Arid Regions, Case: Atacama Desert Header. 2022 , 12, 1971	1
721	Artificial-Neural-Network-Based Surrogate Models for Structural Health Monitoring of Civil Structures: A Literature Review. 2022 , 12, 2067	1
720	Comparing autoencoder-based approaches for anomaly detection in highway driving scenario images. 2022 , 4,	0
719	Human Upper Limb Motion Recognition Using IMU sensors and Artificial Neural Networks. 2022 ,	0
718	Machine Learning in Earthquake Seismology. 2023 , 51,	0
717	Activity-difference training of deep neural networks using memristor crossbars.	0
716	AI-Blockchain Systems in Aerospace Engineering and Management: Review and Challenges. 2022 ,	0
715	Comparison of Two Different Morphological Methods to Study the Pronotum of Cimicidae: Bed Bugs, Bat Bugs, and Swallow Bugs. 2022 , 13, 1155	0
714	Machine Learning vs. Rule-Based Methods for Document Classification of Electronic Health Records within Psychiatry - A Systematic Literature Review.	0
713	Hierarchical Deep LSTM for Fault Detection and Diagnosis for a Chemical Process. 2022 , 10, 2557	0
712	Machine learning modeling and evaluation of jet fires from natural gas processing, storage, and transport.	0
711	The Value of Open Banking Data for Application Credit Scoring: Case Study of a Norwegian Bank. 2022 , 15, 597	1
710	Large-Scale Inventory Optimization: A Recurrent Neural Networks-Inspired Simulation Approach.	0

709	Self-supervised phrase embedding method by fusing internal and external semantic information of phrases.	0
708	Artificial Intelligence and Advanced Materials. 2208683	1
707	An integrated data-driven surrogate model and thermofluid network-based model of a 620 MWe utility-scale boiler. 095765092211482	0
706	Artificial neural network applied to fragile X-associated tremor/ataxia syndrome stage diagnosis based on peripheral mitochondrial bioenergetics and brain imaging outcomes. 2022, 12,	0
705	Unsupervised dimension-contribution-aware embeddings transformation for anomaly detection. 2022, 110209	0
704	An Anomaly Intrusion Detection for High-Density Internet of Things Wireless Communication Network Based Deep Learning Algorithms. 2023, 23, 206	2
703	BCI learning phenomena can be explained by gradient-based optimization.	0
702	N-Omniglot, a large-scale neuromorphic dataset for spatio-temporal sparse few-shot learning. 2022, 9,	0
701	Photons guided by axons may enable backpropagation-based learning in the brain. 2022, 12,	0
700	Predictions on Frost Growth over a Flat Plate using Surface Characteristics: Machine Learning Methods. 2022,	0
699	Neuroevolution gives rise to more focused information transfer compared to backpropagation in recurrent neural networks.	0
698	Direct retrieval of Zernike-based pupil functions using integrated diffractive deep neural networks. 2022, 13,	1
697	Mangrove: Learning Galaxy Properties from Merger Trees. 2022, 941, 7	0
696	Disentangling shared and group-specific variations in single-cell transcriptomics data with multiGroupVI.	0
695	Deep Learning-Based Image Recognition of Agricultural Pests. 2022, 12, 12896	0
694	A model fusion method based on multi-source heterogeneous data for stock trading signal prediction.	0
693	Long-term multi source analysis for asphalt binder PG selection using deep learning high air temperature modelling. 1-18	0
692	Reinforcement Learning Based Control Scheme for Emergency Vehicle Preemption with Edge Computing.	0

- 691 Cost reduction for data acquisition based on data fusion: Reconstructing the surface temperature of a turbine blade. ○
- 690 Structure Optimization with Stochastic Density Functional Theory. ○
- 689 Biologically plausible unsupervised learning in neural networks with sparse and asymmetric connectivity. ○
- 688 New technologies for optimal scheduling of electric vehicles in renewable energy-oriented power systems: A review of deep learning, deep reinforcement learning and blockchain technology. ○
- 687 Deep Attention-based Supernovae Classification of Multiband Light Curves. **2023**, 165, 18 ○
- 686 Global TEC Map Fusion Through a Hybrid Deep Learning Model: RFGAN. ○
- 685 Automatic Cause Inference of Construction Accident Using Long Short-Term Memory Neural Networks. **2022**, ○
- 684 A New Framework for Winter Wheat Yield Prediction Integrating Deep Learning and Bayesian Optimization. **2022**, 12, 3194 ○
- 683 LSTM-UKF framework for an effective global land-ocean index temperature prediction. ○
- 682 Convolutional neural network analysis of X-ray diffraction data: strain profile retrieval in ion beam modified crystals. ○
- 681 A hybrid CFD Deep Learning methodology for improving the accuracy of pressure drop prediction in cyclone separators. **2022**, ○
- 680 Machine learning versus crop growth models: an ally, not a rival. ○
- 679 A Developmental Approach for Training Deep Belief Networks. ○
- 678 Deep Unfolded Gridless DOA Estimation Networks Based on Atomic Norm Minimization. **2023**, 15, 13 ○
- 677 Multi-Scale Flood Mapping under Climate Change Scenarios in Hexagonal Discrete Global Grids. **2022**, 11, 627 ○
- 676 Peer-to-Peer Trading for Energy-Saving Based on Reinforcement Learning. **2022**, 15, 9633 ○
- 675 Prediction of Operation Time of Container Ship at Berth under Uncertain Factors Based on a Hybrid Model Combining PCA and ELM Optimized by IPSO. **2022**, 10, 1919 ○
- 674 Deep Learning in Intelligent Power and Energy Systems. **2022**, 45-67 ○

673	Artificial intelligence systems for the design of magic shotgun drugs. 2022 , 100055	0
672	A Neural Network-Based Asphalt Pavement Crack Classification Model Using Image Processing and Random Boosted Differential Flower Pollination.	0
671	Classification of Gravity Matching Areas Using PSO-BP Neural Networks based on PCA and Satellite Altimetry Data over the Western Pacific. 2022 , 22, 9892	0
670	Consumer Behavior Prediction Based on Machine Learning Scenarios. 2023 , 410-419	0
669	Ground-penetrating radar wavefield simulation via physics-informed neural network solver. 1-74	0
668	Predicting triaxial compressive strength of high-temperature treated rock using machine learning techniques. 2022 ,	0
667	Scaling Up Bayesian Uncertainty Quantification for Inverse Problems Using Deep Neural Networks. 2022 , 10, 1684-1713	0
666	Enhancing cancer differentiation with synthetic MRI examinations via generative models: a systematic review. 2022 , 13,	1
665	Deep learning model based on a bidirectional gated recurrent unit for the detection of gravitational wave signals. 2022 , 106,	0
664	WaterSegformer: A lightweight model for water body information extraction from remote sensing images.	0
663	Quantum Optimal Control via Semi-Automatic Differentiation. 6, 871	0
662	Environmental and hydrologic controls on sediment and organic carbon export from a subalpine catchment: insights from a time series. 2022 , 19, 5591-5616	0
661	Artificial Neural Network Modeling on PM10, PM2.5, and NO2 Concentrations between Two Megacities without a Lockdown in Korea, for the COVID-19 Pandemic Period of 2020. 2022 , 19, 16338	1
660	Deep learning-based speech analysis for Alzheimer's disease detection: a literature review. 2022 , 14,	1
659	A Fault Diagnosis Method of 25Hz Phase-Sensitive Track Circuit Based on BP Neural Network Optimized by Genetic Algorithm. 2022 , 2383, 012066	0
658	Explainable AI: A review of applications to neuroimaging data. 16,	0
657	Super-resolution image display using diffractive decoders. 2022 , 8,	2
656	Modeling and real-time prediction of irrigation water quality index using Graphical User Interface (App), a case study of Oued-Hammam North-East Algeria.	0

- 655 A Survey on Tools and Techniques for Localizing Abnormalities in X-ray Images Using Deep Learning. **2022**, 10, 4765 ○
- 654 Intelligent prediction of rockburst in tunnels based on back propagation neural network integrated beetle antennae search algorithm. ○
- 653 Finite Element and Neural Network Models to Forecast Gas Well Inflow Performance of Shale Reservoirs. **2022**, 10, 2602 ○
- 652 Predicting CO₂ Absorption in Ionic Liquids with Molecular Descriptors and Explainable Graph Neural Networks. **2022**, 10, 16681-16691 ○
- 651 A framework for purchasing and transferring materials for enterprise production. **2022**, ○
- 650 Introduction to Neural Transfer Learning With Transformers for Social Science Text Analysis. 004912412211345 ○
- 649 Carbon price prediction based on multi-factor MEEMD-LSTM model. **2022**, e12562 ○
- 648 A fault diagnosis framework for rotating machinery of marine equipment: A semi-supervised learning framework based on contractive stacked autoencoder. 147509022211438 ○
- 647 Local memory allocation recruits memory ensembles across brain regions. **2022**, ○
- 646 Entering the new digital era of intensive care medicine: an overview of interdisciplinary approaches to use artificial intelligence for patients benefit. **2023**, 2, e0014 ○
- 645 How far is brain-inspired artificial intelligence away from brain?. 16, ○
- 644 DIR-Net: Deep Residual Polar Decoding Network Based on Information Refinement. **2022**, 24, 1809 ○
- 643 Towards New Generation, Biologically Plausible Deep Neural Network Learning. **2022**, 4, 46 ○
- 642 High-dimensional aerodynamic data modeling using a machine learning method based on a convolutional neural network. **2022**, 4, ○
- 641 Regimes of ion dynamics in current sheets: The machine learning approach. **2022**, 106, ○
- 640 Forecasting hourly foF₂ over Sonmiani using an artificial neural network algorithm. **2022**, ○
- 639 Wheat leaf traits monitoring based on machine learning algorithms and high-resolution satellite imagery. **2022**, 101967 ○
- 638 Long-term missing value imputation for time series data using deep neural networks. 1

637	An Interpretable Machine-learning Framework for Modeling High-resolution Spectroscopic Data*. 2022 , 941, 200	1
636	Establishment of CNN and EncoderDecoder Models for the Prediction of Characteristics of Flow and Heat Transfer around NACA Sections. 2022 , 15, 9204	0
635	Deep reinforcement learning-based critical element identification and demolition planning of frame structures.	0
634	Intent Classification and Slot Filling Model for In-Vehicle Services in Korean. 2022 , 12, 12438	0
633	Steady-state characteristics prediction of marine towing cable with BPNN. 1-15	1
632	Neuronal network algorithm towards color model of full color gamut yarn and its color prediction research. 004051752211462	0
631	A Decomposition-based Multi-model and Multi-parameter Ensemble Forecast Framework for Monthly Streamflow Forecasting. 2023 , 129083	1
630	AdaSmooth: An Adaptive Learning Rate Method Based on Effective Ratio. 2023 , 273-293	0
629	Neural Networks from Biophysical Applications in Microelectronics Parameters Measurements. 2023 , 359-381	0
628	Cultural heritage tourism in Granada. A multilayer perceptron approach. 1-20	0
627	On the predictability in reversible steganography.	0
626	Constraining the polarisation flux density and angle of point sources by training a convolutional neural network.	0
625	Information theory. 2001 , 490-519	0
624	Copyright Page. 2001 , iv-iv	0
623	Introduction to linear algebra for neural networks. 2001 , 477-489	0
622	Preface. 2001 , v-viii	0
621	Suboptimal Online Energy Management for a Fuel Cell/Supercapacitor/Battery Electric Vehicle Using Artificial Neural Network Approach.	0
620	Text classification in memristor-based spiking neural networks.	0

- 619 On the Use of Machine Learning for Subgrid Scale Filtered Density Function Modelling in Large Eddy Simulations of Combustion Systems. **2023**, 209-243 ○
- 618 Interdisciplinarity in Cognitive Science and the Nature of Cognition. **2023**, 169-188 ○
- 617 End-to-End Underwater Acoustic Communication Based on Autoencoder with Dense Convolution. **2023**, 12, 253 ○
- 616 FedSepsis: A Federated Multi-Modal Deep Learning-Based Internet of Medical Things Application for Early Detection of Sepsis from Electronic Health Records Using Raspberry Pi and Jetson Nano Devices. **2023**, 23, 970 ○
- 615 Deep Potential: Recovering the Gravitational Potential from a Snapshot of Phase Space. **2023**, 942, 26 ○
- 614 Review of Machine Learning and Artificial Intelligence (ML/AI) for the Pediatric Neurologist. **2023**, ○
- 613 Automatic Design of Metaheuristics for Practical Engineering Applications. **2023**, 1-1 ○
- 612 Learning the dynamics of realistic models of *C. elegans* nervous system with recurrent neural networks. **2023**, 13, ○
- 611 Machine-Learning Methods on Noisy and Sparse Data. **2023**, 11, 236 1
- 610 The IBA-ISMO Method for Rolling Bearing Fault Diagnosis Based on VMD-Sample Entropy. **2023**, 23, 991 1
- 609 A Modified Artificial Neural Network (ANN)-Based Time Series Prediction of COVID-19 Cases from Multi-Country Data. ○
- 608 An SSA-LC-DAE Method for Extracting Network Security Elements. **2023**, 1-11 ○
- 607 Identification and Counting of Coffee Trees Based on Convolutional Neural Network Applied to RGB Images Obtained by RPA. **2023**, 15, 820 ○
- 606 Intelligent Computing: The Latest Advances, Challenges and Future. ○
- 605 Data-driven ensemble model for probabilistic prediction of debris-flow volume using Bayesian model averaging. **2023**, 82, ○
- 604 Modelling and optimization of surface roughness in chemical mechanical polishing based on DNN-GA. 095440622211471 ○
- 603 Prediction of Spread in Steel Wire Rod Rolling: Transferable and Explainable Approach. **2023**, 1, 19-33 ○
- 602 D-Cov19Net: A DNN based COVID-19 detection system using lung sound. **2023**, 66, 101926 ○

601	Deep learning-based attenuation for shear wave leakage from ocean-bottom node data. 1-46	o
600	Design synthesis of structural systems as a Markov decision process solved with deep reinforcement learning. 1-19	o
599	Device simulations with A U-Net model predicting physical quantities in two-dimensional landscapes. 2023 , 13,	o
598	Towards a better consideration of rainfall and hydrological spatial features by a deep neural network model to improve flash floods forecasting: case study on the Gardon basin, France.	o
597	Research on Performance Predictions using Single-hole Film Cooling Based on PointNet.	o
596	How to Find Actionable Static Analysis Warnings: A Case Study With FindBugs. 2023 , 1-17	o
595	A hybrid modeling approach considering spatial heterogeneity and nonlinearity to discover the transition rules of urban cellular automata models. 239980832211490	o
594	Deep Permutation Design: A new potential artificial intelligence-based design methodology. 1-10	o
593	Deep Convolutional Neural Networks for Subgrid-Scale Flame Wrinkling Modeling. 2023 , 149-174	o
592	A novel total nitrogen prediction method based on recurrent neural networks utilizing cross-coupling attention and selective attention. 2023 ,	o
591	One-Layer Real-Time Optimization Using Reinforcement Learning: A Review with Guidelines. 2023 , 11, 123	o
590	A Method for Calculating the Derivative of Activation Functions Based on Piecewise Linear Approximation. 2023 , 12, 267	o
589	Artificial intelligence and machine learning for quantum technologies. 2023 , 107,	1
588	A Back Propagation Neural Network Based Calibration Approach for Sentinel-3 OLCI Near-Infrared Water Vapor Product. 2023 , 1-1	o
587	Energy-Efficient User Association in mmWave/THz Ultra-Dense Network via Multi-Agent Deep Reinforcement Learning. 2023 , 1-1	o
586	BERT-based ensemble learning for multi-aspect hate speech detection.	o
585	Optimal modeling of anti-breast cancer candidate drugs screening based on multi-model ensemble learning with imbalanced data. 2023 , 20, 5117-5134	o
584	Error reduction in long-term mine planning estimates using deep learning models. 2023 , 119487	o

583	CLG-Trans: Contrastive Learning for Code Summarization via Graph Attention-based Transformer. 2023 , 102925	0
582	Generative Adversarial Networks for DNA Storage Channel Simulator. 2023 , 11, 3781-3793	0
581	Machine Learning und Korpuspragmatik. Word Embeddings als Beispiel für einen kreativen Umgang mit NLP-Tools. 2023 , 213-235	0
580	Dealing with dimensionality: the application of machine learning to multi-omics data.	1
579	Prediction of Electrodiffusioosmotic Transport of Shear-thinning Fluids in a Nanochannel using Artificial Neural Network.	1
578	Introducing Temporal Correlation in Rainfall and Wind Prediction From Underwater Noise. 2023 , 1-16	0
577	Land Cover Classification with Gaussian Processes using spatio-spectro-temporal features. 2023 , 1-1	0
576	Application of Machine Learning to improve the efficiency of electrophysiological simulations used for the prediction of drug-induced ventricular arrhythmia. 2023 , 107345	0
575	Using artificial neural networks in the investigation of four moderate geomagnetic storms (mGSs) that occurred in 2015. 2023 ,	0
574	Intelligent velocity picking considering an expert experience based on the ChanVese model and mean-shift clustering. 11,	0
573	Freeze-and-mutate: abnormal sample identification for DL applications through model core analysis. 2023 , 30,	0
572	Relation between PM2.5 and O3 over Different Urban Environmental Regimes in India. 2023 , 7, 9	0
571	Condition monitoring and early fault warning of power plant auxiliary equipment using LSTM-SDAE model with an adaptive threshold. 10,	0
570	How can artificial neural networks approximate the brain?. 13,	0
569	Traffic Prediction With Missing Data: A Multi-Task Learning Approach. 2023 , 1-14	0
568	Application of Speech on Stress Recognition with Neural Network in Nuclear Power Plant. 2023 , 13, 779	0
567	Toward the third generation artificial intelligence. 2023 , 66,	0
566	Deep-learning model for sea surface temperature prediction near the Korean Peninsula. 2023 , 105262	0

565	Improving remote sensing of extreme events with machine learning: Land surface temperature retrievals from IASI observations.	0
564	Artificial Intelligence Application in Demand Response: Advantages, Issues, Status, and Challenges. 2023 , 1-1	0
563	Data-Driven Reduced Order Modelling for Patient-Specific Hemodynamics of Coronary Artery Bypass Grafts with Physical and Geometrical Parameters. 2023 , 94,	0
562	Study on critical slowdown characteristics and early warning model of damage evolution of sandstone under freeze-thaw cycles. 10,	5
561	The application of regression models to market rate of return prediction. 2023 ,	0
560	Quantifying chatbots' ability to learn business processes. 2023 , 102176	0
559	Combining multi-objective genetic algorithm and neural network dynamically for the complex optimization problems in physics. 2023 , 13,	0
558	Feature alignment as a generative process. 5,	0
557	Room-Temperature-Processable Highly Reliable Resistive Switching Memory with Reconfigurability for Neuromorphic Computing and Ultrasonic Tissue Classification. 2213064	0
556	Constructing Traceability Links between Software Requirements and Source Code Based on Neural Networks. 2023 , 11, 315	0
555	The online in situ detection of plastic and its combustion smoke via laser-induced breakdown spectroscopy. 1-11	0
554	Machine Learning Techniques in Reactive Atomistic Simulations. 2023 , 15-52	0
553	How Do Artificial Neural Networks Classify Musical Triads? A Case Study in Eluding Bonini's Paradox. 2023 , 47,	0
552	Advance prediction of coastal groundwater levels with temporal convolutional and long short-term memory networks. 2023 , 27, 83-96	0
551	Algorithm and hardware co-design co-optimization framework for LSTM accelerator using quantized fully decomposed tensor train. 2023 , 100680	0
550	Dynamic Prediction of Natural Gas Calorific Value Based on Deep Learning. 2023 , 16, 799	0
549	Assessment of the effects of the biotic and abiotic harmful factors on the amount of industrial wood production with deep learning.	0
548	A Combined Model Based on Recurrent Neural Networks and Graph Convolutional Networks for Financial Time Series Forecasting. 2023 , 11, 224	2

- 547 NOx concentration prediction in coal-fired power plant based on CNN-LSTM algorithm. 10, ○
- 546 Deep neural networks for estimation of temperature values for thermal ageing evaluation of nuclear power plant equipment. **2023**, 156, 104542 ○
- 545 Implementation of shaking table based offline hybrid testing through neural networks. **2023**, 48, 21-30 ○
- 544 A machine learning model to predict yield surfaces from crystal plasticity simulations. **2023**, 161, 103507 ○
- 543 Automatic classification of asphalt pavement cracks using a novel integrated generative adversarial networks and improved VGG model. **2023**, 277, 115406 16
- 542 Resolution estimation in different monolithic PET detectors using neural networks. **2023**, 106, 102527 ○
- 541 Identifying the optimal heterogeneous ensemble learning model for building energy prediction using the exhaustive search method. **2023**, 281, 112763 1
- 540 Artificial neural network modeling on trichloroethylene biodegradation in a packed-bed biofilm reactor and its comparison with response surface modeling approach. **2023**, 191, 108801 ○
- 539 Enhancing spatial resolution of GRACE-derived groundwater storage anomalies in Urmia catchment using machine learning downscaling methods. **2023**, 330, 117180 ○
- 538 Gas-sensing performance of Au loading Sn_{0.97}Cu_{0.03}O₂ and its use on quantifying CO and H₂ concentration by BP-temperature modulation method. **2023**, 156, 107291 ○
- 537 Physics-guided Bayesian neural networks by ABC-SS: Application to reinforced concrete columns. **2023**, 119, 105790 ○
- 536 Development of predictive QSAR models for the substrates/inhibitors of OATP1B1 by deep neural networks. **2023**, 376, 20-25 ○
- 535 Machine Learning based algorithms for modeling natural convection fluid flow and heat and mass transfer in rectangular cavities filled with non-Newtonian fluids. **2023**, 119, 105750 ○
- 534 GPU-accelerated artificial neural network potential for molecular dynamics simulation. **2023**, 285, 108655 ○
- 533 Field data analysis and risk assessment of shallow gas hazards based on neural networks during industrial deep-water drilling. **2023**, 232, 109079 ○
- 532 Hydrocarbon production dynamics forecasting using machine learning: A state-of-the-art review. **2023**, 337, 127067 1
- 531 Genetic optimized AlMg alloy constitutive modeling and activation energy analysis. **2023**, 244, 108077 ○
- 530 A multimodal time-series method for gifting prediction in live streaming platforms. **2023**, 60, 103254 ○

- 529 Principles of Object Tracking and Mapping. **2023**, 53-84 ○
- 528 Comparison of the hydrological time series modeling by the floods in river Indus of Pakistan. **2022**, 6, 130-140 ○
- 527 Second-order Derivative Optimization Methods in Deep Learning Neural Networks. **2022**, ○
- 526 Miscellaneous EEG Preprocessing and Machine Learning for Pilots' Mental States Classification: Implications. **2022**, ○
- 525 A Revised Converter Paradigm Designed for Spam Message Exposure. **2022**, ○
- 524 Online Learning Feedback Control Considering Hysteresis for Musculoskeletal Structures. **2022**, ○
- 523 Avila categorization using Machine Learning. **2022**, ○
- 522 Intelligent Forecast Model of Octane Number Loss Using BP Neural Network and Random Forests. **2022**, ○
- 521 Big Data and Deep Learning Techniques Applied in Intelligent Recommender Systems. **2022**, ○
- 520 The Integrated Evaluation of Airport Ground Movement Performance Based on GA-BP Network. **2022**, ○
- 519 A Systematic Mapping of Computer Vision-Based Sign Language Recognition. **2022**, ○
- 518 A Review on Neural Network based Gait Estimation Methods. **2022**, ○
- 517 Use of Attention-Based Neural Networks to Short-Term Load Forecasting in the Republic of Panama. **2022**, ○
- 516 Image Inpainting Generation Adversative Network Based on Attention Mechanism. **2022**, ○
- 515 A Coyote Optimization Algorithm-trained Dendritic Neuron Model for Prediction Tasks. **2022**, ○
- 514 Future Glycemic Events Prediction Model Based On Artificial Neural Network. **2022**, ○
- 513 A Hybrid Model of Kalman-ARIMA-LSTM for Flow Prediction of Mine air Compressors. **2022**, ○
- 512 Gas Turbine Model Identification Based on Online Sequential Regularization Extreme Learning Machine with a Forgetting Factor. **2023**, 16, 304 ○

511	Kalman-Bucy-Informed Neural Network for System Identification. 2022,	0
510	Compute in-Memory with Non-Volatile Elements for Neural Networks: A Review from a Co-Design Perspective. 2204944	0
509	Surface Soil Moisture Retrieval on Qinghai-Tibetan Plateau Using Sentinel-1 Synthetic Aperture Radar Data and Machine Learning Algorithms. 2023, 15, 153	1
508	Real-time Context-aware learning System for IoT Applications. 2022,	0
507	HSAELDA: Predicting lncRNA-disease associations based on heterogeneous networks and Stacked Autoencoder. 2022,	0
506	Data Assimilation Predictive GAN (DA-PredGAN) Applied to a Spatio-Temporal Compartmental Model in Epidemiology. 2023, 94,	1
505	Training Autoencoders Using Relative Entropy Constraints. 2023, 13, 287	0
504	IC-SNN: Optimal ANN2SNN Conversion at Low Latency. 2023, 11, 58	0
503	Use and Abuse of IoT: Challenges and Recommendations. 2022, 397-465	0
502	Black-box Optimization by Annealing Machines. 2022, 29, 164-173	0
501	Motion-Constrained GNSS/INS Integrated Navigation Method Based on BP Neural Network. 2023, 15, 154	0
500	IL-GAN: Rare Sample Generation via Incremental Learning in GANs. 2022,	0
499	Machine Learning-Assisted Synthesis of Two-Dimensional Materials. 2023, 15, 1871-1878	0
498	The plasticitome of cortical interneurons.	1
497	Einführung in Methoden neuronaler Netzwerke.	0
496	Near-term forecasts of stream temperature using deep learning and data assimilation in support of management decisions.	0
495	Contraction Analysis of Hopfield Neural Networks with Hebbian Learning. 2022,	0
494	Neurodynamical Computing at the Information Boundaries of Intelligent Systems.	0

- 493 Adaptive Latent Factor Analysis via Generalized Momentum-Incorporated Particle Swarm Optimization. **2022**, ○
- 492 EFFECTS OF INPUT VARIABLE SELECTION IN ARTIFICIAL NEURAL NETWORK FOR WATER STAGE FORECASTING. **2022**, 78, I_145-I_150 ○
- 491 Koordination sportlicher Bewegungen Sportmotorik. **2022**, 247-320 ○
- 490 A Comparison of Model-Based and Machine Learning Techniques for Fault Diagnosis. **2022**, ○
- 489 Energy Consumption Forecasting Based on Long Short-term Memory Neural Network with Realistic Smart Meter Data. **2022**, ○
- 488 CAN-BERT do it? Controller Area Network Intrusion Detection System based on BERT Language Model. **2022**, ○
- 487 Inverse design meets nanophotonics: From computational optimization to artificial neural network. **2023**, 3-32 ○
- 486 Short-time wind speed prediction based on Legendre multi-wavelet neural network. ○
- 485 Lung cancer detection from histopathological lung tissue images using deep learning. **2023**, 51-74 ○
- 484 Update on the Use of Artificial Intelligence in Hepatobiliary MR Imaging. **2023**, ○
- 483 Overview of Surface Defect Detection Methods Based on Deep Learning. **2023**, 123-128 ○
- 482 Predicting wind-driven spatial deposition through simulated color images using deep autoencoders. **2023**, 13, ○
- 481 Machine learning in materials modeling and design. **2023**, 203-236 ○
- 480 Computer-Aided Drug Design towards New Psychotropic and Neurological Drugs. **2023**, 28, 1324 ○
- 479 Polyphonic Instrument Emotion Recognition using Stacked Auto Encoders: A Dimensionality Reduction Approach. **2023**, 218, 1905-1914 ○
- 478 Machine Learning Classification-Regression Schemes for Desert Locust Presence Prediction in Western Africa. ○
- 477 Artificial Intelligence Foundation of Smart Ocean. **2023**, 1-44 ○
- 476 Sheep face recognition and classification based on an improved MobilenetV2 neural network. **2023**, 20, 172988062311529 ○

- 475 Fighting Money Laundering With Statistics and Machine Learning. **2023**, 11, 8889-8903 ○
- 474 Utilization of EV Charging Station in Demand Side Management Using Deep Learning Method. **2023**, 11, 8747-8760 ○
- 473 A new method to retrieve rainfall intensity level from rain-contaminated X-band marine radar image. **2023**, 44, 585-608 ○
- 472 Combined HW/SW Drift and Variability Mitigation for PCM-based Analog In-memory Computing for Neural Network Applications. **2023**, 1-1 1
- 471 Prediction of motor function in patients with traumatic brain injury using genetic algorithms modified back propagation neural network: A data-based study. 16, ○
- 470 Background on Optimization. **2023**, 75-120 ○
- 469 Big data and deep learning: extracting and revising chemical knowledge from data. **2023**, 115-150 ○
- 468 Predictive Maintenance and Fault Monitoring Enabled by Machine Learning: Experimental Analysis of a TA-48 Multistage Centrifugal Plant Compressor. **2023**, 13, 1790 1
- 467 High-speed predictions of post-burn contraction using a neural network trained on 2D-finite element simulations. 9, ○
- 466 Spike-Based Anytime Perception. **2023**, ○
- 465 Long Short-Term Memory Neural Equalizer. **2023**, 1-10 ○
- 464 Self-supervised graph learning with target-adaptive masking for session-based recommendation. **2023**, 24, 73-87 ○
- 463 TMD-BERT: A Transformer-Based Model for Transportation Mode Detection. **2023**, 12, 581 ○
- 462 Projected Water Levels and Identified Future Floods: A Comparative Analysis for Mahaweli River, Sri Lanka. **2023**, 11, 8920-8937 ○
- 461 Mitigating Catastrophic Forgetting with Complementary Layered Learning. **2023**, 12, 706 ○
- 460 Automated detection of colon cancer using deep learning. **2023**, 265-281 ○
- 459 The Rise of Machine Learning in Polymer Discovery. 2200243 ○
- 458 Conditional autoencoder pre-training and optimization algorithms for personalized care of hemophiliac patients. 6, ○

457	Artificial Neural Network-Based Activities Classification, Gait Phase Estimation, and Prediction.	1
456	Recent advances in shelf life prediction models for monitoring food quality.	0
455	Intelligent Model for Dynamic Shear Modulus and Damping Ratio of Undisturbed Marine Clay Based on Back-Propagation Neural Network. 2023 , 11, 249	3
454	Visually explaining 3D-CNN predictions for video classification with an adaptive occlusion sensitivity analysis. 2023 ,	0
453	Cycle sampling neural network algorithms and applications.	0
452	Comparison of Prediction Modeling Methodologies for Aeroacoustic Characterization of Hovering sUAS Rotors. 2023 ,	0
451	Artificial intelligence in cardiovascular imaging. 2023 , 51-72	0
450	Scour Detection with Monitoring Methods and Machine Learning Algorithms: A Critical Review. 2023 , 13, 1661	1
449	Prediction of Compressive Strength of Fly Ash-Slag Based Geopolymer Paste Based on Multi-Optimized Artificial Neural Network. 2023 , 16, 1090	0
448	Quantitative Modeling on Nonstationary Neural Spikes: From Reinforcement Learning to Point Process. 2023 , 2555-2614	0
447	Autoencoded Elastic Wave-equation Traveltime Inversion: Towards Reliable Near-surface Tomogram. 2023 , 1-1	0
446	The history of modern artificial intelligence. 2023 , 131-161	0
445	Static and Dynamic Evaluation of Financing Efficiency in Enterprises: Low-Carbon Supply Chain: PCADEAMalmquist Model Method. 2023 , 15, 2510	1
444	Thermogram-based estimation of foot arterial blood flow using neural networks. 2023 , 44, 325-344	0
443	Principal Component Analysis. 2023 , 123-154	0
442	Glucose Transformer: Forecasting Glucose Level and Events of Hyperglycemia and Hypoglycemia. 2023 , 1-13	0
441	High-efficient and reversible intelligent design for perforated auxetic metamaterials with peanut-shaped pores.	0
440	????????????????MLP?????. 2023 ,	0

- 439 Multi-response optimization of process parameters for remediation of tetrachloroethylene pools by surfactants: Application of Taguchi design of experiment and Artificial Neural Network. ○
- 438 Anomaly Detection of Aviation Data Bus Based on Sae and Emd. ○
- 437 Prediction of Chloride Diffusion Coefficient in Concrete Modified with Supplementary Cementitious Materials Using Machine Learning Algorithms. **2023**, 16, 1277 ○
- 436 Prehensile and Non-Prehensile Robotic Pick-and-Place of Objects in Clutter Using Deep Reinforcement Learning. **2023**, 23, 1513 1
- 435 AnomMAN: Detect anomalies on multi-view attributed networks. **2023**, 628, 1-21 ○
- 434 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 ○
- 433 Capturing the few-shot class distribution: Transductive distribution optimization. **2023**, 138, 109371 ○
- 432 Boosting Mobile Virtual Network Operator. **2023**, 111-139 ○
- 431 Application of Deep Reinforcement Learning in UAVs: A Review. **2022**, ○
- 430 Field Trail of Shared Risk Optical Fiber Links Detection Based on OTDR and AI Algorithm. **2022**, ○
- 429 Heart Rate Estimation by PCA with LSTM from Video-based Plethysmography Under Periodic Noise. **2022**, ○
- 428 An Exploration of Learning About Cardiovascular Disease Prediction using Deep Learning. **2022**, ○
- 427 Multi-Modal Colour Extraction Using Deep Learning Techniques. **2022**, ○
- 426 Classification and Forecasting of Water Stress in Tomato Plants Using Bioristor Data. **2023**, 11, 34795-34807 ○
- 425 An Automatic Detection Framework for Electrical Anomalies in Electrified Rail Transit System. **2023**, 72, 1-13 ○
- 424 Probing the Purview of Neural Networks via Gradient Analysis. **2023**, 11, 32716-32732 ○
- 423 A Time Series Forecasting Method Using DBN and Adam Optimization. **2023**, 95-106 ○
- 422 Background and Related Work. **2023**, 9-27 ○

421	Pooling Graph Convolutional Networks for Structural Performance Prediction. 2023 , 1-16	o
420	Feed-Forward Neural Network Based Petroleum Wells Equipment Failure Prediction. 2023 , 15, 163-175	o
419	Effectiveness of Self Normalizing Neural Networks for Text Classification. 2023 , 412-423	o
418	RASE: A Real-Time Automatic Search Engine for Anomalous Seismic Electric Signals in Geoelectric Data. 2023 , 61, 1-11	o
417	Recognition-aware Bitrate Allocation for AI-Enabled Remote Video Surveillance. 2023 ,	o
416	Artificial Intelligence and Methods. 2023 , 9-28	o
415	Assessment of bus speed influencing factors through the exploitation of machine learning techniques. 2023 , 69, 751-758	o
414	Automated Detection and Classification of Oral Squamous Cell Carcinoma Using Deep Neural Networks. 2023 , 13, 918	o
413	Deep learning for the design of phononic crystals and elastic metamaterials. 2023 , 10, 602-614	o
412	Neural network flow optimization using an oscillating cylinder. 2023 , 13, 025327	o
411	Physics-informed neural networks for gravity currents reconstruction from limited data. 2023 , 35, 027124	o
410	Improved traffic sign recognition algorithm based on YOLOv4-tiny. 2023 , 91, 103774	o
409	From center to surrounding: An interactive learning framework for hyperspectral image classification. 2023 , 197, 145-166	1
408	Research on Vibration Fatigue Damage Locations of Offshore Oil and Gas Pipelines Based on the GA-Improved BP Neural Network. 2023 , 2023, 1-18	o
407	Fast and Accurate Deep Leakage from Gradients Based on Wasserstein Distance. 2023 , 2023, 1-12	o
406	Deep Learning Based Multiresponse Optimization Methodology for Dual-Axis MEMS Accelerometer. 2023 , 14, 817	o
405	Neural Networks with Dependent Inputs.	o
404	A Predictive Coding Model of the N400.	o

- 403 A Novel Regularization Paradigm for the Extreme Learning Machine. ○
- 402 Forecasting Stock Market Indices Using the Recurrent Neural Network Based Hybrid Models: CNN-LSTM, GRU-CNN, and Ensemble Models. **2023**, 13, 4644 ○
- 401 Constructing large nonstationary spatio-temporal covariance models via compositional warpings. **2023**, 54, 100742 1
- 400 Probe Microscopy is All You Need. ○
- 399 Application of a Deep Neural Network for Acoustic Source Localization Inside a Cavitation Tunnel. **2023**, 11, 773 ○
- 398 Predicting NOx Distribution in a Micro Rich Quench Lean Combustor Using a Variational Autoencoder. **2023**, 25, 604 ○
- 397 RUE: A robust personalized cost assignment strategy for class imbalance cost-sensitive learning. **2023**, 35, 36-49 ○
- 396 Exploring best-matched embedding model and classifier for charging-pile fault diagnosis. **2023**, 6, ○
- 395 Prediction of Static Liquefaction Susceptibility of Sands Containing Plastic Fines Using Machine Learning Techniques. ○
- 394 An Efficient Compression Method for Lightning Electromagnetic Pulse Signal Based on Convolutional Neural Network and Autoencoder. **2023**, 23, 3908 ○
- 393 Fault Detection of Induction Motors with Combined Modeling- and Machine-Learning-Based Framework. **2023**, 16, 3429 ○
- 392 A century and a half precipitation oxygen isoscape for China generated using data fusion and bias correction. **2023**, 10, ○
- 391 Differences of Training Structures on Stimulus Class Formation in Computational Agents. **2023**, 7, 39 ○
- 390 Evolutionary based drug synergy prediction using adaptive L₁ vy based neural network structure. ○
- 389 Machine learning in coastal bridge hydrodynamics: A state-of-the-art review. **2023**, 134, 103511 ○
- 388 A dynamic factor model to predict homicides with firearm in the United States. **2023**, 86, 102051 ○
- 387 Data-driven predictive prognostic model for power batteries based on machine learning. **2023**, 172, 894-907 ○
- 386 Deep learning machine based ship parametric rolling simulation and recognition algorithms. **2023**, 276, 114137 ○

- 385 A comprehensive understanding of adaptive thermal comfort in dynamic environments [An interaction matrix-based path analysis modeling framework. **2023**, 284, 112834 ○
- 384 A full end-to-end deep approach for detecting and classifying jaw movements from acoustic signals in grazing cattle. **2023**, 121, 106016 ○
- 383 Forecasting movements of stock time series based on hidden state guided deep learning approach. **2023**, 60, 103328 ○
- 382 Evaluating neural network models in site-specific solar PV forecasting using numerical weather prediction data and weather observations. **2023**, 207, 266-274 ○
- 381 Optimised graded metamaterials for mechanical energy confinement and amplification via reinforcement learning. **2023**, 99, 104947 ○
- 380 A semisupervised autoencoder-based method for anomaly detection in cutting tools. **2023**, 93, 315-327 ○
- 379 Controlling auxeticity in curved-beam metamaterials via a deep generative model. **2023**, 410, 116032 ○
- 378 A comprehensive survey on design and application of autoencoder in deep learning. **2023**, 138, 110176 ○
- 377 Simulation of unsteady flow around bluff bodies using knowledge-enhanced convolutional neural network. **2023**, 236, 105405 ○
- 376 Improving sentiment domain adaptation for Arabic using an unsupervised self-labeling framework. **2023**, 60, 103338 ○
- 375 Contrastive knowledge integrated graph neural networks for Chinese medical text classification. **2023**, 122, 106057 ○
- 374 Artificial neural network-aided force finding of cable dome structures with diverse integral self-stress states-framework and case study. **2023**, 285, 116004 ○
- 373 Establishment of sample pool and prediction of saturation field in complex fault block reservoir based on deep learning algorithm. **2023**, 225, 211654 ○
- 372 Learning asymmetric embedding for attributed networks via convolutional neural network. **2023**, 219, 119659 ○
- 371 Uncertainty quantification of CO2 emissions from China's civil aviation industry to 2050. **2023**, 336, 117624 ○
- 370 Artificial neural network in prediction of mixed-mode I/II fracture load. **2023**, 248, 108214 ○
- 369 Towards DDoS attack detection using deep learning approach. **2023**, 129, 103251 ○
- 368 Balanced incremental deep reinforcement learning based on variational autoencoder data augmentation for customer credit scoring. **2023**, 122, 106056 ○

- 367 From micro- to nano- and time-resolved x-ray computed tomography: Bio-based applications, synchrotron capabilities, and data-driven processing. **2023**, 10, 021302 ○
- 366 Numerical simulation and mathematical models of ash deposition behavior considering particle properties and operating conditions. **2023**, 245, 107743 ○
- 365 Classification of operational states in porous journal bearings using a semi-supervised multi-sensor Machine Learning approach. **2023**, 184, 108464 ○
- 364 Video captioning: A comparative review of where we are and which could be the route. **2023**, 231, 103671 ○
- 363 Predicting the NO_x emissions of low heat value gas rich-quench-lean combustor via three integrated learning algorithms with Bayesian optimization. **2023**, 273, 127227 1
- 362 Analysing energy poverty in warm climate zones in Spain through artificial intelligence. **2023**, 68, 106116 ○
- 361 Deep learning model for prediction of non-linear cyclic hysteresis of seismic isolation devices: Full-scale experimental validation. **2023**, 169, 107873 ○
- 360 Infomax-based deep autoencoder network for recognition of multi-element geochemical anomalies linked to mineralization. **2023**, 175, 105341 ○
- 359 Efficient training of two ANNs using four meta-heuristic algorithms for predicting the FRP strength. **2023**, 52, 256-272 ○
- 358 Investigating gas furnace control practices with reinforcement learning. **2023**, 209, 124147 ○
- 357 An artificial neural network-particle swarm optimization (ANN-PSO) approach to predict the aeration efficiency of venturi aeration system. **2023**, 4, 100230 ○
- 356 Mesh model registration via deep mapping by local projection for optical scanning based reverse engineering. **2023**, 163, 109328 ○
- 355 A hybrid Autoformer framework for electricity demand forecasting. **2023**, 9, 3800-3812 ○
- 354 Confocal Raman microspectroscopy combined with spectral screening algorithms for quantitative analysis of starch in rice. **2023**, 141, 108737 ○
- 353 Cognitive and plastic recurrent neural network clock model for the judgment of time and its variations. **2023**, 13, ○
- 352 Deep learning-based path computation without routing convergence in optical satellite networks. ○
- 351 Bound the Parameters of Neural Networks Using Particle Swarm Optimization. **2023**, 12, 82 ○
- 350 Navigational Guidance \square A Deep Learning Approach. **2023**, ○

- 349 Prediction of drilling fluid lost-circulation zone based on deep learning. **2023**, 127495 ○
- 348 Machine learning-based optimization design of bistable curved shell structures with variable thickness. **2023**, 52, 175-186 ○
- 347 Prediction of wart treatment response using a hybrid GA-ensemble learning approach. **2023**, 221, 119737 ○
- 346 EdgeFireSmoke++: A novel lightweight algorithm for real-time forest fire detection and visualization using internet of things-human machine interface. **2023**, 221, 119747 ○
- 345 SSI-LSTM network for adaptive operational modal analysis of building structures. **2023**, 195, 110306 ○
- 344 Cyberinfrastructure for sourcing and processing ecological data. **2023**, 75, 102039 ○
- 343 Applications of deep learning in single-cell analysis. ○
- 342 Human single neuron recordings. **2024**, ○
- 341 Künstliche Intelligenz. **2022**, 177-261 ○
- 340 Artificial neural network applied on sintered BaTiO₃-ceramic density. **2022**, 54, 425-438 ○
- 339 Self-Supervised Learning for data scarcity in a fatigue damage prognostic problem. **2023**, 120, 105837 ○
- 338 Single-cell pair-wise relationships untangled by composite embedding model. **2023**, 26, 106025 ○
- 337 MLEExchange: A web-based platform enabling exchangeable machine learning workflows for scientific studies. **2022**, ○
- 336 PREDICTION OF DAM INFLOWS DURING SNOWMELT SEASON USING DEEP LEARNING. **2022**, 78, I_151-I_156 ○
- 335 SPIDE: A purely spike-based method for training feedback spiking neural networks. **2023**, 161, 9-24 ○
- 334 Bow-tie architectures in biological and artificial neural networks: Implications for network evolution and assay design. **2023**, 26, 106041 ○
- 333 Spatial prediction of the geological hazard vulnerability of mountain road network using machine learning algorithms. **2023**, 14, ○
- 332 A robust training of dendritic neuron model neural network for time series prediction. ○

- 331 Nonlinear relationships and interaction effects of an urban environment on crime incidence: Application of urban big data and an interpretable machine learning method. **2023**, 91, 104419 ○
- 330 Dot-Product Similarity based Centroid Clustering for Popular Topic Detection. **2022**, ○
- 329 Super-forecasting the Technological singularity risks from artificial intelligence. ○
- 328 Morphological Construction of Transmission Error of Precision Reducer Based on BP Neural Network. **2022**, ○
- 327 Constructing Organism Networks from Collaborative Self-Replicators. **2022**, ○
- 326 A novel permeability index prediction method for blast furnace based on the improved extreme learning machine. **2022**, ○
- 325 Rifle Detection and Performance Evaluation Using Deep Learning Frameworks. **2023**, 403-433 ○
- 324 Deep learning enabled surrogate model of complex food processes for rapid prediction. **2023**, 270, 118515 ○
- 323 Machine Learning in Manufacturing towards Industry 4.0: From *Hour-Now* to *Hour-Know* **2023**, 13, 1903 1
- 322 Towards Scalable and Fast Distributionally Robust Optimization for Data-Driven Deep Learning. **2022**, ○
- 321 Variational Autoencoders. **2023**, 563-576 ○
- 320 Machine learning based modeling of path-dependent materials for finite element analysis. **2023**, 156, 105254 ○
- 319 Restricted Boltzmann Machine and Deep Belief Network. **2023**, 501-529 ○
- 318 Novel PV Power Hybrid Prediction Model Based on FL Co-Training Method. **2023**, 12, 730 ○
- 317 COVID-19 Predictive Models Based on Grammatical Evolution. **2023**, 4, ○
- 316 Spatially-resolved bending recognition based on a learning-empowered fiber specklegram sensor. **2023**, 31, 7671 ○
- 315 Effect of sugarcane bagasse and alumina reinforcements on physical, mechanical, and thermal characteristics of epoxy composites using artificial neural networks and response surface methodology. ○
- 314 Multimodal FastSlow Neural Network for learning engagement evaluation. **2023**, ○

313	Training Multilayer Neural Network Based on Optimal Control Theory for Limited Computational Resources. 2023 , 11, 778	o
312	Deep-learning model for sea surface temperature prediction near the Korean Peninsula. 2023 , 208, 105263	o
311	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	o
310	Performance Comparison of Machine Learning Disruption Predictors at JET. 2023 , 13, 2006	o
309	Physics-informed deep learning cascade loss model. 2023 , 134, 108165	o
308	Penetration recognition based on machine learning in arc welding: a review. 2023 , 125, 3899-3923	o
307	Lithology identification using graph neural network in continental shale oil reservoirs: A case study in Mahu Sag, Junggar Basin, Western China. 2023 , 150, 106168	o
306	LoopDA: Constructing Self-loops to Adapt Nighttime Semantic Segmentation. 2023 ,	o
305	Large Language Models and the Reverse Turing Test. 2023 , 35, 309-342	o
304	In Search of an Efficient and Reliable Deep Learning Model for Identification of COVID-19 Infection from Chest X-ray Images. 2023 , 13, 574	1
303	Deep learning in spatial transcriptomics: Learning from the next next-generation sequencing. 2023 , 4, 011306	1
302	Prediction of Flood Discharge Using Hybrid PSO-SVM Algorithm in Barak River Basin. 2023 , 10, 102060	o
301	Machine learning aided near-field acoustic holography based on equivalent source method. 2023 , 153, 940-951	o
300	Rapid assessment of out-of-plane nonlinear shear stress-strain response for thick-section composites using artificial neural networks and DIC. 2023 , 310, 116770	o
299	References. 2024 , 407-416	o
298	Computational models of stimulus equivalence: An intersection for the study of symbolic behavior. 2023 , 119, 407-425	o
297	Neural networks optimized by genetic algorithms in cosmology. 2023 , 107,	o
296	Deep Knowledge Tracing with Learning Curves. 2022 ,	o

- 295 Machine learning and deep learning in medicine and neuroimaging. ○
- 294 Processing of Sensor Outputs. **2023**, 527-556 ○
- 293 Intraday forecast of global horizontal irradiance using optical flow method and long short-term memory model. **2023**, 252, 234-251 ○
- 292 Fundamentals of neural networks. **2024**, 17-51 ○
- 291 Introduction. **2024**, 1-16 ○
- 290 Deep learning. **2024**, 53-121 ○
- 289 Soil Nutrient Deficiency Detection of Lime Trees using Signal-based Deep Learning. **2022**, ○
- 288 A data-driven model for production prediction of strongly heterogeneous reservoir under uncertainty. **2023**, 223, 211542 ○
- 287 Multi-Angle Detection of Spatial Differences in Tea Physiological Parameters. **2023**, 15, 935 ○
- 286 Upscaling Permeability Using Multiscale X-Ray-CT Images With Digital Rock Modeling and Deep Learning Techniques. **2023**, 59, ○
- 285 A survey on applications of machine learning algorithms in water quality assessment and water supply and management. **2023**, 23, 895-922 ○
- 284 Automatic Cattle Identification using YOLOv5 and Mosaic Augmentation: A Comparative Analysis. **2022**, ○
- 283 Technical note: Progressive deep learning: An accelerated training strategy for medical image segmentation. ○
- 282 A deep learning-based approach to time-coordination entry guidance for multiple hypersonic vehicles. **2023**, 127, 604-626 1
- 281 A reduced-form ensemble of short-term air quality forecasting with the Sparrow search algorithm and decomposition error correction. **2023**, 30, 48508-48531 ○
- 280 Deep learning for noise attenuation from the ocean bottom node 4C data. ○
- 279 Intrusion Detection Approach of Power Information Network Based on DNSAE and IQPSO-SVM. **2022**, ○
- 278 Trend and dynamic analysis on temporal drilling data and their data-driven models. **2023**, 223, 211530 ○

- 277 Nonlinear transformation of color coordinates for color reproduction by a 3-layered neural network. **1992**, ○
- 276 Inverse Design of Micro Phononic Beams Incorporating Size Effects via Tandem Neural Network. **2023**, 16, 1518 ○
- 275 Hybrid autoencoder with orthogonal latent space for robust population structure inference. **2023**, 13, ○
- 274 Learning with supervised data for anomaly detection in smart manufacturing. 1-14 ○
- 273 Neural Network for the Statistical Process Control of HVAC Systems in Passenger Rail Vehicles. **2022**, 393-406 ○
- 272 A transformer-based synthetic-inflow generator for spatially developing turbulent boundary layers. **2023**, 957, 1
- 271 Advances in Diagnosis, Therapy, and Prognosis of Coronary Artery Disease Powered by Deep Learning Algorithms. **2023**, 3, 1-14 1
- 270 Comparative studies of predictive models for unsteady flow fields based on deep learning and proper orthogonal decomposition. **2023**, 272, 113935 ○
- 269 Feature extraction and selection from electroencephalogram signals for epileptic seizure diagnosis. 1
- 268 MACLA-LSTM: A Novel Approach for Forecasting Water Demand. **2023**, 15, 3628 ○
- 267 Erklärbare Künstliche Intelligenz am Beispiel von Ratings deutscher Lebensversicherungsunternehmen. **2023**, 112, 3-32 ○
- 266 Recent Progress in Organic-Based Photonic Synapses. **2022**, 1, 155-173 ○
- 265 Memory-Net: Coupling feature maps extraction and hierarchical feature maps reuse for efficient and effective PET/CT multi-modality image-based tumor segmentation. **2023**, 265, 110399 ○
- 264 Application of machine learning in groundwater quality modeling - A comprehensive review. **2023**, 233, 119745 ○
- 263 SMG: A Micro-gesture Dataset Towards Spontaneous Body Gestures for Emotional Stress State Analysis. **2023**, 131, 1346-1366 ○
- 262 Recurrent neural network for complex survival problems. 1-25 ○
- 261 MoS2 as Nonlinear Optical Material for Optical Neural Networks. **2023**, 29, 1-7 ○
- 260 Quantum machine learning: from physics to software engineering. **2023**, 8, ○

- 259 Reflective-net: learning from explanations. ○
- 258 Pattern Recognition and Deep Learning Technologies, Enablers of Industry 4.0, and Their Role in Engineering Research. **2023**, 15, 535 ○
- 257 DeepBIO: an automated and interpretable deep-learning platform for high-throughput biological sequence prediction, functional annotation and visualization analysis. ○
- 256 Forecasting global stock market volatility: The impact of volatility spillover index in spatial-temporal graph-based model. ○
- 255 Artificial Intelligence Approaches for Energetic Materials by Design: State of the Art, Challenges, and Future Directions. **2023**, 48, 1
- 254 Investigating Neural Network Training on a Feature Level Using Conditional Independence. **2023**, 383-399 ○
- 253 Gene-Environment interaction analysis via deep learning. **2023**, 47, 261-286 ○
- 252 Machine Learning in Lung Cancer Radiomics. ○
- 251 MotorNet: a Python toolbox for controlling differentiable biomechanical effectors with artificial neural networks. ○
- 250 A Generalized Deep Learning Clustering Algorithm Based on Non-Negative Matrix Factorization. ○
- 249 Using a deep learning algorithm in image-based wavefront sensing: determining the optimum number of Zernike terms. **2023**, 2, 632 ○
- 248 A Systematic and Comparative Study of Distinct Recurrent Neural Networks for Lithium-Ion Battery State-of-Charge Estimation in Electric Vehicles. **2023**, 16, 2008 ○
- 247 Prediction of Signal Phase and Timing Information: Comparison of Machine Learning Algorithm Performance. **2023**, 263-277 ○
- 246 Big Data and Deep Learning with Case Study: An Empirical Stock Market Analysis. **2023**, 297-308 ○
- 245 Extracting 3-D curvatures from images of surfaces using a neural network. **1987**, ○
- 244 Dual-path recommendation algorithm based on CNN and attention-enhanced LSTM. 1-16 ○
- 243 An Automatic Recognition System for Digital Collections of Indonesian Traditional Houses Using Convolutional Neural Networks for Cultural Heritage Preservation. ○
- 242 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 ○

- 241 Application of Self-supervised Learning in Non-intrusive Load Monitoring. **2023**, 2425, 012037 ○
- 240 Comparison of Machine Learning Methods for Cryptocurrency Price Prediction. **2022**, ○
- 239 Tool Wear Prediction in Glass Fiber Reinforced Polymer Small-Hole Drilling Based on an Improved Circle Chaotic Mapping Grey Wolf Algorithm for BP Neural Network. **2023**, 13, 2811 1
- 238 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 ○
- 237 Spatial Prediction of Groundwater Withdrawal Potential Using Shallow, Hybrid, and Deep Learning Algorithms in the Toudgha Oasis, Southeast Morocco. **2023**, 15, 3874 ○
- 236 Deep Neural Network-Based 4-Quadrant Analog Sun Sensor Calibration. **2023**, 3, ○
- 235 Decoupled neural network training with re-computation and weight prediction. **2023**, 18, e0276427 ○
- 234 Dynamic Face Perception: The Role of Expertise in Dual Processing of Features and Configuration. **2022**, 16, ○
- 233 Does Deep Learning Have Epileptic Seizures? On the Modeling of the Brain. ○
- 232 Neural Circuit Policies Imposing Visual Perceptual Autonomy. ○
- 231 Inferring synchronizability of networked heterogeneous oscillators with machine learning. **2023**, 107, ○
- 230 Subsampled First-Order Optimization Methods with Applications in Imaging. **2023**, 61-95 ○
- 229 Towards a Machine Learning Pipeline in Reduced Order Modelling for Inverse Problems: Neural Networks for Boundary Parametrization, Dimensionality Reduction and Solution Manifold Approximation. **2023**, 95, ○
- 228 Foreground removal of CO intensity mapping using deep learning. **2023**, 521, 278-288 ○
- 227 To Dev or to Doc?: Predicting College IT Students' Prominent Functions in Software Teams Using LMS Activities and Academic Profiles. **2022**, ○
- 226 Deep learning hybrid for X-ray lung disease detection. **2022**, ○
- 225 Metasurfaces designed by a bidirectional deep neural network and iterative algorithm for generating quantitative field distributions. **2023**, 4, 1 ○
- 224 An enhanced deep learning method for accurate and robust modelling of soil stress-strain response. ○

223	Challenges and Opportunities in Deep Learning Driven Fashion Design and Textiles Patterns Development. 2023 , 173-187	0
222	GNSS Site unmodeled error prediction based on machine learning. 2023 , 27,	0
221	Multivariate Density Estimation with Deep Neural Mixture Models.	0
220	Predicting Sea Ice Concentration With Uncertainty Quantification Using Passive Microwave and Reanalysis Data: A Case Study in Baffin Bay. 2023 , 61, 1-13	0
219	Current Status and Prospects of Research on Sensor Fault Diagnosis of Agricultural Internet of Things. 2023 , 23, 2528	0
218	Inverse design of high-NA metalens for maskless lithography. 2023 ,	0
217	Deep learning-based EEG emotion recognition: Current trends and future perspectives. 14,	0
216	Recovery of Intrinsic Heterojunction Bipolar Transistors Profiles by Neural Networks. 2022 ,	0
215	An efficient fixed-time increment-based data-driven simulation for general multibody dynamics using deep neural networks.	0
214	TRACING THE ADVANCEMENTS IN ARTIFICIAL INTELLIGENCE: DRAWING LESSONS FOR TOMORROW. 1883-1896	0
213	Sequence-based prediction of protein-protein interaction using auto-feature engineering of RNN-based model. 2023 , 39, 259-272	0
212	Efficient Underground Target Detection of Urban Roads in Ground-Penetrating Radar Images Based on Neural Networks. 2023 , 15, 1346	0
211	Control of an active suspension system based on long short-term memory (LSTM) learning. 2023 , 15, 168781322311567	0
210	A Review of Physics-Informed Machine Learning in Fluid Mechanics. 2023 , 16, 2343	0
209	Data Analysis of Impaired Renal and Cardiac Function Using a Combination of Standard Classifiers. 2023 , 13, 437	0
208	A Compositional Transformer Based Autoencoder for Image Style Transfer. 2023 , 12, 1184	0
207	Geophysics-steered self-supervised learning for deconvolution. 2023 , 234, 40-55	1
206	Evolving of Smart Banking with NLP and Deep Learning. 2023 , 151-172	0

- 205 Analysis and construction of the coal and rock cutting state identification system in coal mine intelligent mining. **2023**, 13, ○
- 204 Identification of Clinically Relevant HIV Vif Protein Motif Mutations through Machine Learning and Undersampling. **2023**, 12, 772 ○
- 203 Regression analysis of air pollution and pediatric respiratory diseases based on interpretable machine learning. 11, ○
- 202 Inverse Hamiltonian design by automatic differentiation. **2023**, 6, 1
- 201 Automatic lithology identification method based on efficient deep convolutional network. ○
- 200 Multi-objective optimization of printed circuit heat exchanger with airfoil fins based on the improved PSO-BP neural network and the NSGA-II algorithm. **2023**, ○
- 199 Verifying Feedforward Neural Networks for Classification in Isabelle/HOL. **2023**, 427-444 ○
- 198 A safe operation strategy for HTS-SMES magnets based on state prediction. **2023**, 131, 103660 ○
- 197 Artificial intelligence and machine learning in pain research: a data scientometric analysis. **2022**, 7, e1044 1
- 196 CO₂ capture by benzene-based hypercrosslinked polymer adsorbent: Artificial neural network and response surface methodology. ○
- 195 Application of a New Hybrid Deep Learning Model That Considers Temporal and Feature Dependencies in Rainfall Runoff Simulation. **2023**, 15, 1395 ○
- 194 Improving the Accuracy of MODIS Near-Infrared Water Vapor Product Under all Weather Conditions Based on Machine Learning Considering Multiple Dependence Parameters. **2023**, 61, 1-15 ○
- 193 DecisioNet: A Binary-Tree Structured Neural Network. **2023**, 556-570 ○
- 192 Prediction of Automatic Scram during Abnormal Conditions of Nuclear Power Plants Based on Long Short-Term Memory (LSTM) and Dropout. **2023**, 2023, 1-14 ○
- 191 Applications of fractional gradient descent method with adaptive momentum in BP neural networks. **2023**, 448, 127944 ○
- 190 Benchmarking framework for machine learning classification from fNIRS data. 4, ○
- 189 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 ○
- 188 Development and application of a novel probabilistic back-analysis framework for geotechnical parameters in shield tunneling based on the surrogate model and Bayesian theory. ○

- 187 Performance Degradation Evaluation Model of Rolling Bearing Based on CAE-SVDD. **2023**, 341-353 ○
- 186 Neural model to estimate permeability from well logs and core data. **2023**, 45, ○
- 185 Machine Learning-Based Shape Error Estimation Using the Servomotor Current Generated During Micro-Milling of a Micro-Lens Mold. **2023**, 17, 92-102 ○
- 184 Deep learning for face mask detection: a survey. ○
- 183 Forecasting accuracy of machine learning and linear regression: evidence from the secondary CAT bond market. ○
- 182 Towards real-time fluid dynamics simulation: a data-driven NN-MPS method and its implementation. **2023**, 29, 95-115 ○
- 181 End-to-end data-dependent routing in multi-path neural networks. ○
- 180 A residual ensemble learning approach for solar irradiance forecasting. ○
- 179 Surrogate-based optimization approach for capacitated hub location problem with uncertainty. **2023**, 10, ○
- 178 A deep meta-level spatio-categorical POI recommender system. ○
- 177 Research on Service Quality Improvement of Agro-tourism Integration Scenic Spots Based on BP Neural Network. **2022**, ○
- 176 Physics-informed machine learning method for modelling transport of a conservative pollutant in surface water systems. **2023**, 619, 129354 ○
- 175 Prediction and Control in DNA Nanotechnology. ○
- 174 Effects of Data Characteristics on Bus Travel Time Prediction: A Systematic Study. **2023**, 15, 4731 ○
- 173 Predicting phenotypes from novel genomic markers using deep learning. **2023**, 3, ○
- 172 The use of data independent acquisition based proteomic analysis and machine learning to reveal potential biomarkers for autism spectrum disorder. **2023**, 278, 104872 ○
- 171 Deep Learning for Parkinson's Disease Diagnosis: A Short Survey. **2023**, 12, 58 ○
- 170 EFFICIENCY IMPROVEMENT OF PINNS INVERSE ANALYSIS BY EXTRACTING SPATIAL FEATURES OF DATA. **2023**, 79, n/a ○

- 169 Automatic optimization of miniaturized bound states in the continuum cavity. **2023**, 31, 12384 ○
- 168 A Brief Tour of Deep Learning from a Statistical Perspective. **2023**, 10, 219-246 ○
- 167 A review of dynamics analysis of neural networks and applications in creation psychology. **2023**, 31, 2595-2625 ○
- 166 Factors Impacting Diversity and Effectiveness of Evolved Modular Robots. **2023**, 3, 1-33 ○
- 165 A Variational Algorithm for Quantum Single Layer Perceptron. **2023**, 341-356 ○
- 164 Do Machines Really Understand Meaning? (Again). **2023**, 10, 181-206 ○
- 163 Dynamic Performance Evaluation of Air-to-Air Missiles Based on Deep Learning. **2023**, 629-640 ○
- 162 Machine Learning-Based Improvement of Aerosol Optical Depth from CHIMERE Simulations Using MODIS Satellite Observations. **2023**, 15, 1510 ○
- 161 AisNet: A Universal Interatomic Potential Neural Network with Encoded Local Environment Features. **2023**, 63, 1756-1765 ○
- 160 Forecast of Fossil Fuel Demand Based On Low Carbon Emissions from the Perspective of Energy Security. **2023**, 58, 1075-1082 ○
- 159 Machine learning approach for optimization and performance prediction of triangular duct solar air heater: A comprehensive review. **2023**, 255, 396-415 ○
- 158 Connectome-constrained deep mechanistic networks predict neural responses across the fly visual system at single-neuron resolution. ○
- 157 Unraveling dynamically-encoded latent transcriptomic patterns in pancreatic cancer cells by topic modelling. ○
- 156 Instance-Wise Causal Feature Selection Explainer for Rotating Machinery Fault Diagnosis. **2022**, ○
- 155 Overview of Spiking Neural Network Learning Approaches and Their Computational Complexities. **2023**, 23, 3037 ○
- 154 One-Day-Ahead Hourly Wind Power Forecasting Using Optimized Ensemble Prediction Methods. **2023**, 16, 2688 ○
- 153 Analysis of Airglow Image Classification Based on Feature Map Visualization. **2023**, 13, 3671 ○
- 152 Some enhancements to DeepKriging. **2023**, 12, ○

- 151 Rolling Bearing Fault Diagnosis based on DWT-BPNN. **2023**, 22, 264-271 ○
- 150 Artificial Intelligence Accelerators. **2023**, 1-52 ○
- 149 A Machine Learning Approach to Robot Localization Using Fiducial Markers in RobotAtFactory 4.0 Competition. **2023**, 23, 3128 ○
- 148 Bayesian learning for neural networks: an algorithmic survey. ○
- 147 Accurate Phase Detection for ZigBee Using Artificial Neural Network. **2023**, 36, 2505-2518 ○
- 146 Developing Prediction Models for Public Transportation Passenger Flow under the Spread of COVID-19. **2023**, 58, 62-74 ○
- 145 Using Machine Learning To Predict Partition Coefficient (Log P) and Distribution Coefficient (Log D) with Molecular Descriptors and Liquid Chromatography Retention Time. **2023**, 63, 1906-1913 ○
- 144 CMG: A Class-Mixed Generation Approach to Out-of-Distribution Detection. **2023**, 502-518 ○
- 143 Capturing Cross-Platform Interaction for Identifying Coordinated Accounts of Misinformation Campaigns. **2023**, 694-702 ○
- 142 Flight Delay Prediction Model Based on Lightweight Network ECA-MobileNetV3. **2023**, 12, 1434 ○
- 141 A primer on predictive techniques for food and bioresources transformation processes. ○
- 140 Introduction to SVM. **2023**, 3-18 ○
- 139 Disaster Risk Regionalization and Prediction of Corn Thrips Combined with Cloud Model: A Case Study of Shandong Province, China. **2023**, 12, 709 ○
- 138 Identifying Propagation Source of Worms with Convolutional Neural Networks. **2022**, ○
- 137 Explaining cocktail party effect and McGurk effect with a spiking neural network improved by Motif-topology. 17, ○
- 136 Innovative Out-of-Stock Prediction System Based on Data History Knowledge Deep Learning Processing. **2023**, 11, 62 ○
- 135 Modern Artificial Neural Networks: Is Evolution Cleverer?. **2023**, 35, 763-806 ○
- 134 Adopting improved Adam optimizer to train dendritic neuron model for water quality prediction. **2023**, 20, 9489-9510 ○

- 133 A Well Production Prediction Method of Tight Reservoirs Based on a Hybrid Neural Network. **2023**, 16, 2904 ○
- 132 Machine learning and Bayesian inference in nuclear fusion research: an overview. **2023**, 65, 053001 ○
- 131 Review-driven configuration scheme evaluation methodology with configuration interaction effects. **2023**, 56, 101935 ○
- 130 Novel machine-learning method for spin classification of neutron resonances. **2023**, 107, ○
- 129 Fast fetal head compounding from multi-view 3D ultrasound. **2023**, 102793 ○
- 128 Modelling the Non-Linear Dependencies between Government Expenditures and Shadow Economy Using Data-Driven Approaches. **2023**, 70, 97-114 ○
- 127 Multiclass solar flare forecasting models with different deep learning algorithms. **2023**, 521, 5384-5399 ○
- 126 Current Status and Future Direction of Artificial Intelligence in Healthcare and Medical Education. **2020**, 22, 99-114 ○
- 125 Reconstruction of three-dimensional turbulent flow structures using surface measurements for free-surface flows based on a convolutional neural network. **2023**, 959, ○
- 124 MHAMD-MST-CNN: multiscale head attention guided multiscale density maps fusion for video crowd counting via multi-attention spatial-temporal CNN. 1-14 ○
- 123 Application of Artificial Neural Network Models to Differentiate Between Complicated and Uncomplicated Acute Appendicitis. **2023**, 47, ○
- 122 Effect of Optimization Techniques on Feedback Alignment Learning of Neural Networks. **2023**, ○
- 121 ACGANs Improve Chemical Sensors for Challenging Distributions. **2022**, ○
- 120 Human Activity Classification Based on Dual Micro-Motion Signatures Using Interferometric Radar. **2023**, 15, 1752 ○
- 119 Words Similarities on Personalities: A Language-Based Generalization Approach for Personality Factors Recognition. **2023**, 11, 29823-29836 ○
- 118 A Deep Learning Model for 3D Ground Reaction Force Estimation Using Shoes with Three Uniaxial Load Cells. **2023**, 23, 3428 ○
- 117 Models developed for spiking neural networks. **2023**, 10, 102157 ○
- 116 Towards Autonomous Driving Model Resistant to Adversarial Attack. **2023**, 37, ○

- 115 Learning quadrotor dynamics for precise, safe, and agile flight control. **2023**, 0
- 114 Predicting song genre with deep learning. 0
- 113 Two-Speed Deep-Learning Ensemble for Classification of Incremental Land-Cover Satellite Image Patches. 0
- 112 A Neuronal Least-Action Principle for Real-Time Learning in Cortical Circuits. 0
- 111 Deep Robust Neural Networks Inspired by Human Cognitive Bias Against Transfer-based Attacks. **2023**, 72-85 0
- 110 Introduction to Federated Learning. **2023**, 1-11 0
- 109 Edge Computing. **2023**, 13-30 0
- 108 The rapid competitive economy of machine learning development: a discussion on the social risks and benefits. 0
- 107 A Spatial-Reduction Attention-Based BiGRU Network for Water Level Prediction. **2023**, 15, 1306 0
- 106 Deep bootstrap for Bayesian inference. **2023**, 381, 1
- 105 Fundamentals of Machine Learning. **2023**, 77-112 0
- 104 Sparse and Outlier Robust Extreme Learning Machine Based on the Alternating Direction Method of Multipliers. 0
- 103 Neural Acceleration of Graph Based Utility Functions for Sparse Matrices. **2023**, 11, 31619-31635 0
- 102 Self-attentive mechanism-based supervised comparative learning. **2022**, 0
- 101 Nanophotonic and Optical Platforms for Deep Learning. **2023**, 157-172 0
- 100 Survey on Decoding Schemes of the Polar Code Using the Deep Learning. **2023**, 152-157 0
- 99 Align-gram: Rethinking the Skip-gram Model for Protein Sequence Analysis. **2023**, 42, 135-146 0
- 98 Parameter optimization of Measurement-Device-Independent Quantum Key Distribution based on regression decision tree. **2023**, 0 0

- 97 Unified Image Restoration with Convolutional Autoencoder. **2022**, ○
- 96 Entangled Quantum Neural Network. **2023**, 245-262 ○
- 95 Applying Neural Networks on Biometric Datasets for Screening Speech and Language Deficiencies in Child Communication. **2023**, 11, 1643 ○
- 94 Estimation of Fv/Fm in Spring Wheat Using UAV-Based Multispectral and RGB Imagery with Multiple Machine Learning Methods. **2023**, 13, 1003 ○
- 93 Extreme-Low-Speed Heavy Load Bearing Fault Diagnosis by Using Improved RepVGG and Acoustic Emission Signals. **2023**, 23, 3541 ○
- 92 Attention mechanism-based deep denoiser for desert seismic random noise suppression. ○
- 91 Deep knowledge tracing with learning curves. 14, ○
- 90 Adaptive Recurrent Iterative Updating Stereo Matching Network. **2023**, 11, 83-98 ○
- 89 An Application of Artificial Neural Network for Predicting Threshing Performance in a Flexible Threshing Device. **2023**, 13, 788 ○
- 88 A review on image captioning system from artificial intelligence, machine learning and deep learning techniques. **2022**, 9, 17 ○
- 87 Neural Network-Based Identification of Cloud Types from Ground-Based Images of Cloud Layers. **2023**, 13, 4470 ○
- 86 A Hierarchical Neural Network Model for Japanese Toward Detecting Mild Cognitive Impairment. **2023**, 143, 465-470 ○
- 85 Spalling failure of deep hard rock caverns. **2023**, ○
- 84 Cascaded Compressed Sensing Networks. **2023**, 30, 364-368 ○
- 83 AN ENHANCED DIFFERENTIAL EVOLUTION ALGORITHM WITH ADAPTIVE WEIGHT BOUNDS FOR EFFICIENT TRAINING OF NEURAL NETWORKS. **2023**, 13, 4-13 ○
- 82 Learning a simple multilayer perceptron with PSO. **2023**, 14, 500-507 ○
- 81 Estimating receptive fields of simple and complex cells in early visual cortex: A convolutional neural network model with parameterized rectification. ○
- 80 Landslide Susceptibility Mapping and Driving Mechanisms in a Vulnerable Region Based on Multiple Machine Learning Models. **2023**, 15, 1886 ○

- 79 Synonym-based Text Generation in Restructuring Imbalanced Dataset for Deep Learning Models. **2022**, ○
- 78 Recurrent and convolutional neural networks in structural dynamics: a modified attention steered encoder-decoder architecture versus LSTM versus GRU versus TCN topologies to predict the response of shock wave-loaded plates. ○
- 77 ??????????. **2023**, 60, 0600001 ○
- 76 Artificial Intelligence Techniques: Smart Way to Smart Grid. **2023**, ○
- 75 Using attention-based neural networks for predicting student learning outcomes in service-learning. ○
- 74 Industrial Time-Series Signal Anomaly Detection Based on G-LSTM-AE Model. **2023**, 383-391 ○
- 73 Prediction of Recurrence in Non Small Cell Lung Cancer Patients with Gene Expression Data Using Machine Learning Techniques. **2023**, ○
- 72 The prediction of shale gas reservoir parameters through a multilayer transfer learning network. **2023**, 234, 1463-1475 ○
- 71 Meta-learning biologically plausible plasticity rules with random feedback pathways. **2023**, 14, ○
- 70 Artificial intelligence in healthcare: a mastery. 1-50 ○
- 69 Predictive coding with spiking neurons and feedforward gist signalling. ○
- 68 AI-harmonies of the Spheres. **2023**, 132-147 ○
- 67 Advanced Algorithms for Low Dimensional Metal Oxides-Based Electronic Nose Application: A Review. **2023**, 13, 615 ○
- 66 Learning Specific Features for KOA Diagnosis: Autoencoder Network vs. Feature Selection. **2022**, ○
- 65 MBTI Personality Prediction Using Machine Learning and SMOTE for Balancing Data Based on Statement Sentences. **2023**, 14, 217 ○
- 64 A Contrastive-Learning-Based Method for the Few-Shot Identification of Ship-Radiated Noises. **2023**, 11, 782 ○
- 63 Learning from Patterns: Information Retrieval and Visualisation Issues Between Bioimage Informatics and Digital Humanities. **2023**, 979-988 ○
- 62 Expected goals in football: Improving model performance and demonstrating value. **2023**, 18, e0282295 ○

- 61 Effect Analysis based on GAN and CGAN Comparison. 39, 1252-1257
- 60 Using machine learning to estimate the incidence rate of intimate partner violence. **2023**, 13,
- 59 Prediction of detailed blood metabolic profile using milk infrared spectra and machine learning methods in dairy cattle. **2023**,
- 58 Improved reservoir characterization by means of supervised machine learning and model-based seismic impedance inversion in the Penobscot field, Scotian Basin. **2023**, 100180
- 57 Fast prediction of compressor flow field in nuclear power system based on proper orthogonal decomposition and deep learning. 11,
- 56 Prediction of alkali-silica reaction expansion of concrete using artificial neural networks. **2023**, 140, 105073
- 55 Feature Selection on Epistatic Problems Using Genetic Algorithms with Nested Classifiers. **2023**, 656-671
- 54 Using Genetic Programming to Learn Behavioral Models of Lithium Batteries. **2023**, 461-474
- 53 Machine learning-based seeing estimation and prediction using multi-layer meteorological data at Dome A, Antarctica. **2023**, 43, 100710
- 52 Prior Case Retrieval for the Court of Cassation of Turkey. **2022**,
- 51 A survey on molecular-scale learning systems with relevance to DNA computing.
- 50 High Resolution Estimation of Ocean Dissolved Inorganic Carbon, Total Alkalinity and pH Based on Deep Learning. **2023**, 15, 1454
- 49 Advance of Deep Learning. **2023**, 13-45
- 48 Performance evaluation of a novel Conjugate Gradient Method for training feed forward neural network. **2023**, 10, 326-337
- 47 Bibliography. **2023**, 363-367
- 46 Compression-resistant backdoor attack against deep neural networks.
- 45 Efficient Algorithms for High-Dimensional Quantum Optimal Control of a Transmon Qubit. **2023**, 19,
- 44 A new flexible model to calibrate single-layer height for ionospheric modeling using a neural network model. **2023**, 27,

- 43 Learning by non-interfering feedback chemical signaling in physical networks. **2023**, 5, ○
- 42 Stock Price Trends Prediction Based on the Classical Models with Key Information Fusion of Ontologies. ○
- 41 Improving Soil Stability with Alum Sludge: An AI-Enabled Approach for Accurate Prediction of California Bearing Ratio. **2023**, 13, 4934 ○
- 40 Inflow Prediction of Centralized Reservoir for the Operation of Pump Station in Urban Drainage Systems Using Improved Multilayer Perceptron Using Existing Optimizers Combined with Metaheuristic Optimization Algorithms. **2023**, 15, 1543 ○
- 39 Recurrent predictive coding models for associative memory employing covariance learning. **2023**, 19, e1010719 ○
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