

Haruhiko Nishimura

List of Publications by Year in descending order

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140
papers

1,568
citations

361296

20
h-index

395590

33
g-index

145
all docs

145
docs citations

145
times ranked

873
citing authors

#	ARTICLE	IF	CITATIONS
1	Memory Storage Systems Utilizing Chaotic Attractor-Merging Bifurcation. IEEE Access, 2022, 10, 15699-15706.	2.6	2
2	Temporal-scale dependent dynamical characteristics of EEG reflecting circadian rhythms. Nonlinear Theory and Its Applications IEICE, 2022, 13, 421-426.	0.4	2
3	Application of Reduced-Region-of-Orbit (RRO) Feedback Method to a Chaotic Bipolar-disorder Neural System. International Symposium on Affective Science and Engineering, 2022, ISASE2022, 1-4.	0.1	0
4	Long-Tailed Characteristic of Spiking Pattern Alternation Induced by Log-Normal Excitatory Synaptic Distribution. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3525-3537.	7.2	12
5	Health State Transition Model by Binary Expression and Cubic Lattice Representation Corresponding to the Specific Health Checkup. International Journal of Affective Engineering, 2021, 20, 49-55.	0.2	0
6	An Approach for Stabilizing Abnormal Neural Activity in ADHD Using Chaotic Resonance. Frontiers in Computational Neuroscience, 2021, 15, 726641.	1.2	4
7	Feature Analysis of Metabolic Syndrome in the Specific Health Checkup from Lifestyle Questionnaire Data. Transactions of Japan Society of Kansei Engineering, 2021, 20, 9-17.	0.1	0
8	Novel Approach for Memory Storage Systems with Chaos-Chaos Intermittency. , 2021, , .		2
9	Recent Trends of Controlling Chaotic Resonance and Future Perspectives. Frontiers in Applied Mathematics and Statistics, 2021, 7, .	0.7	3
10	Effect of Neural Decay Factors on Prediction Performance in Chaotic Echo State Networks. , 2021, , .		3
11	Evaluation of Ability of Chaotic Resonance under Noises in Neural Systems Comprising Excitatory"Inhibitory Neurons. , 2021, , .		3
12	Constructing Convolutional Neural Networks Based on Quaternion. , 2020, , .		3
13	Time Series Prediction by Quaternionic Qubit Neural Network. , 2020, , .		4
14	Transition of Neural Activity From the Chaotic Bipolar-Disorder State to the Periodic Healthy State Using External Feedback Signals. Frontiers in Computational Neuroscience, 2020, 14, 76.	1.2	12
15	Synchronization of Chaos in Neural Systems. Frontiers in Applied Mathematics and Statistics, 2020, 6, .	0.7	16
16	Deterministic characteristics of spontaneous activity detected by multi-fractal analysis in a spiking neural network with long-tailed distributions of synaptic weights. Cognitive Neurodynamics, 2020, 14, 829-836.	2.3	5
17	Classification Methods Based on Complexity and Synchronization of Electroencephalography Signals in Alzheimer"s Disease. Frontiers in Psychiatry, 2020, 11, 255.	1.3	50
18	Chaos-Chaos Intermittency Synchronization Controlled by External Feedback Signals in Chua's Circuits. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2020, E103.A, 303-312.	0.2	11

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19	Stabilizing Circadian Rhythms in Bipolar Disorder by Chaos Control Methods. <i>Frontiers in Applied Mathematics and Statistics</i> , 2020, 6, .	0.7	6
20	Chaos-Chaos Intermittency Synchronization Induced by Feedback Signals and Stochastic Noise in Coupled Chaotic Systems. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2020, E103.A, 1086-1094.	0.2	5
21	Temporal-specific complexity of spiking patterns in spontaneous activity induced by a dual complex network structure. <i>Scientific Reports</i> , 2019, 9, 12749.	1.6	19
22	Resonance phenomena controlled by external feedback signals and additive noise in neural systems. <i>Scientific Reports</i> , 2019, 9, 12630.	1.6	17
23	Induced Synchronization of Chaos-Chaos Intermittency Maintaining Asynchronous State of Chaotic Orbits by External Feedback Signals. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2019, E102.A, 524-531.	0.2	11
24	Informatics Curriculum for Nursing College Students According to the Data Health Perspective. , 2019, , .		0
25	Atypical temporal-scale-specific fractal changes in Alzheimer's disease EEG and their relevance to cognitive decline. <i>Cognitive Neurodynamics</i> , 2019, 13, 1-11.	2.3	42
26	Pattern Classification by Spiking Neural Networks Combining Self-Organized and Reward-Related Spike-Timing-Dependent Plasticity. <i>Journal of Artificial Intelligence and Soft Computing Research</i> , 2019, 9, 283-291.	3.5	22
27	Complex-Valued Associative Memories with Projection and Iterative Learning Rules. <i>Journal of Artificial Intelligence and Soft Computing Research</i> , 2018, 8, 237-249.	3.5	12
28	Routes to Chaos Induced by a Discontinuous Resetting Process in a Hybrid Spiking Neuron Model. <i>Scientific Reports</i> , 2018, 8, 379.	1.6	17
29	Controlling Chaotic Resonance in Systems with Chaos-Chaos Intermittency Using External Feedback. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2018, E101.A, 1900-1906.	0.2	17
30	Emergent Patterns and Spontaneous Activity in Spiking Neural Networks with Dual Complex Network Structure. , 2018, , .		2
31	Risk Analysis of Financial Time-Series Using Multi-Scale Entropy. , 2018, , .		0
32	Skewed and Long-Tailed Distributions of Spiking Activity in Coupled Network Modules with Log-Normal Synaptic Weight Distribution. <i>Lecture Notes in Computer Science</i> , 2018, , 535-544.	1.0	3
33	Induced Synchronization of Chaos-Chaos Intermittency in Coupled Cubic Maps by External Feedback Signals. , 2018, , .		3
34	Bayesian Network Modeling for Specific Health Checkups on Metabolic Syndrome. <i>Intelligent Systems Reference Library</i> , 2018, , 79-96.	1.0	1
35	Chaotic Resonance in Typical Routes to Chaos in the Izhikevich Neuron Model. <i>Scientific Reports</i> , 2017, 7, 1331.	1.6	42
36	Feed forward neural network with random quaternionic neurons. <i>Signal Processing</i> , 2017, 136, 59-68.	2.1	38

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37	Temporal-specific roles of fractality in EEG signal of Alzheimer's disease. , 2017, , .		1
38	Estimating the dissipative factors of synaptic exocytosis in Drosophila using a filter based reverse engineering method. Nano Communication Networks, 2017, 11, 1-10.	1.6	0
39	Pseudo-Orthogonalization of Memory Patterns for Complex-Valued and Quaternionic Associative Memories. Journal of Artificial Intelligence and Soft Computing Research, 2017, 7, 257-264.	3.5	13
40	Controlling method for attractor merged chaotic resonance by external feedback. , 2017, , .		2
41	Analysis of Chaos Route in Hybridized FitzHugh-Nagumo Neuron Model. Transactions of the Institute of Systems Control and Information Engineers, 2017, 30, 167-174.	0.1	2
42	Noise-Induced Phenomena in the Kaldor Business Cycle Model. Transactions of the Institute of Systems Control and Information Engineers, 2017, 30, 459-466.	0.1	8
43	Screen Unlocking by Spontaneous Flick Reactions with One-Class Classification Approaches. , 2016, , .		4
44	Analysis of Coherence Resonance in Kaldor-Kalecki Business Cycle Model. , 2016, , .		1
45	Pattern Retrieval by Quaternionic Associative Memory with Dual Connections. Lecture Notes in Computer Science, 2016, , 317-325.	1.0	2
46	Chaotic states caused by discontinuous resetting process in spiking neuron model. , 2016, , .		5
47	Chaotic Resonance in Coupled Inferior Olive Neurons with the LlinÅs Approach Neuron Model. Neural Computation, 2016, 28, 2505-2532.	1.3	28
48	Retrieval performance of Hopfield Associative Memory with Complex-valued and Real-valued neurons. , 2016, , .		1
49	A Comparison of Grouping Behaviors on Rule-Based and Learning-Based Multi-agent Systems. Mathematics for Industry, 2016, , 27-40.	0.4	1
50	Quaternionic multistate Hopfield neural network with extended projection rule. Artificial Life and Robotics, 2016, 21, 106-111.	0.7	52
51	Enhancement of Spike-Timing-Dependent Plasticity in Spiking Neural Systems with Noise. International Journal of Neural Systems, 2016, 26, 1550040.	3.2	26
52	Approaches of Phase Lag Index to EEG Signals in Alzheimer's Disease from Complex Network Analysis. Smart Innovation, Systems and Technologies, 2016, , 459-468.	0.5	8
53	Evaluation of Chaotic Resonance by Lyapunov Exponent in Attractor-Merging Type Systems. Lecture Notes in Computer Science, 2016, , 430-437.	1.0	14
54	Evaluation Methods of Chaotic State in Spiking Neural System with State Dependent Jump. Transactions of the Institute of Systems Control and Information Engineers, 2016, 29, 210-215.	0.1	1

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55	A Study of Bayesian Network Model Related to the Specific Health Checkup based on Lifestyle Factor Analysis. Transactions of Japan Society of Kansei Engineering, 2016, 15, 693-701.	0.1	4
56	Analysis of interannual data for the specific health checkup to develop its bayesian network appliction. Health Evaluation and Promotion, 2015, 42, 479-491.	0.0	3
57	Chaotic States Induced By Resetting Process In Izhikevich Neuron Model. Journal of Artificial Intelligence and Soft Computing Research, 2015, 5, 109-119.	3.5	34
58	Chaotic Dynamical States in the Izhikevich Neuron Model. , 2015, , 355-375.		5
59	Analysis of Chaotic Resonance in Izhikevich Neuron Model. PLoS ONE, 2015, 10, e0138919.	1.1	56
60	On the performance of Quaternionic Bidirectional Auto-Associative Memory. , 2015, , .		6
61	Stochastic resonance effects in Izhikevich neural system with spike-timing dependent plasticity. , 2015, , .		1
62	Keyboard Dependency of Personal Identification Performance by Keystroke Dynamics in Free Text Typing. Journal of Information Security, 2015, 06, 229-240.	0.4	6
63	Profile Generation Methods for Reinforcing Robustness of Keystroke Authentication in Free Text Typing. Journal of Information Security, 2015, 06, 131-141.	0.4	2
64	Flick input authentication in Japanese free text entry on smartphones. , 2014, , .		4
65	Spontaneous activity modeling in spiking neural systems with log-normal synaptic weight distribution. , 2014, , .		2
66	Analysis of routes to chaos in Izhikevich neuron model with resetting process. , 2014, , .		4
67	Utilizing High-Dimensional Neural Networks for Pseudo-orthogonalization of Memory Patterns. Lecture Notes in Computer Science, 2014, , 527-534.	1.0	1
68	On processing three dimensional data by quaternionic neural networks. , 2013, , .		8
69	On sustaining robustness of molecular pathway circuits of the HSR network of E. coli under spatial configuration. , 2012, , .		0
70	On applying the method of “system of systems” in robustness analysis and autonomous control of dynamics-aware internet architecture. , 2012, , .		2
71	MODELING FLUCTUATIONS IN DEFAULT-MODE BRAIN NETWORK USING A SPIKING NEURAL NETWORK. International Journal of Neural Systems, 2012, 22, 1250016.	3.2	25
72	Pattern stability on complex-valued associative memory by local iterative learning scheme. , 2012, , .		2

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73	Retrieval Performance of Complex-Valued Associative Memory with Complex Network Structure. , 2012, , .		0
74	Development of a support system for diabetic patients at home using a smartphone. , 2012, , .		0
75	On the filtering mechanism of spontaneous signaling causality of brain's default mode network. , 2012, , .		1
76	Beats as the origin of slow fluctuations in the brain's default-mode network. , 2012, , .		0
77	Chaotic resonance in Izhikevich neuron model and its assembly. , 2012, , .		2
78	On the fundamental properties of fully quaternionic hopfield network. , 2012, , .		14
79	Influence of Keyboard Difference on Personal Identification by Keystroke Dynamics in Japanese Free Text Typing. , 2012, , .		2
80	Quaternionic Multilayer Perceptron with Local Analyticity. Information (Switzerland), 2012, 3, 756-770.	1.7	33
81	Firing Pattern of Default Mode Brain Network with Spiking Neuron Model. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 629-636.	0.2	0
82	An Approach to Fluctuations in Default Mode Brain Network from Spiking Neuron Model. , 2012, , .		0
83	EEG Activities Evoked by Trauma Stimuli Related to Earthquakes and Personality Features Associated with Trauma. International Journal of Intelligent Computing in Medical Sciences and Image Processing, 2011, 4, 13-24.	0.5	5
84	Keystroke Dynamics for Individual Identification in Japanese Free Text Typing. SICE Journal of Control Measurement and System Integration, 2011, 4, 172-176.	0.4	5
85	On retrieval performance of associative memory by Complex-valued Synergetic Computer. , 2011, , .		0
86	Intelligent Safety Verification for Multi-car Elevator System Based on EVALPSN. Lecture Notes in Computer Science, 2011, , 496-505.	1.0	0
87	Detection of tumors on stomach wall in X-ray images. , 2010, , .		1
88	Commutative quaternion and multistate Hopfield neural networks. , 2010, , .		39
89	Grouping and Anti-predator Behaviors for Multi-agent Systems Based on Reinforcement Learning Scheme. Studies in Computational Intelligence, 2010, , 149-182.	0.7	1
90	Noise Effects on Chaos in Chaotic Neuron Model. Proceedings in Information and Communications Technology, 2010, , 209-217.	0.2	1

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91	Reinforcement Learning Scheme for Grouping and Characterization of Multi-agent Network. Lecture Notes in Computer Science, 2010, , 592-601.	1.0	1
92	A Hybrid Model for Individual Identification Based on Keystroke Data in Japanese Free Text Typing. Transactions of the Society of Instrument and Control Engineers, 2010, 46, 676-684.	0.1	4
93	Effects of chaotic exploration on reinforcement learning in target capturing task. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2009, 12, 369-377.	0.7	1
94	An iterative learning scheme for multistate complex-valued and quaternionic Hopfield neural networks. , 2009, , .		14
95	Stochastic Resonance in Recurrent Neural Network with Hopfield-Type Memory. Neural Processing Letters, 2009, 30, 145-154.	2.0	7
96	Beta Activities in EEG Associated with Emotional Stress. International Journal of Intelligent Computing in Medical Sciences and Image Processing, 2009, 3, 57-68.	0.5	28
97	Qubit Neural Network. , 2009, , 325-351.		12
98	Quaternionic Neural Networks. , 2009, , 411-439.		43
99	Personal Identification by Keystroke Dynamics in Japanese Free Text Typing. Transactions of the Institute of Systems Control and Information Engineers, 2009, 22, 145-153.	0.1	6
100	Neural Model Approach to the Basic Law of Psychophysics. Neural Processing Letters, 2008, 27, 115-123.	2.0	1
101	Learning Grouping and Anti-predator Behaviors for Multi-agent Systems. Lecture Notes in Computer Science, 2008, , 426-433.	1.0	8
102	ASSOCIATIVE MEMORY IN QUATERNIONIC HOPFIELD NEURAL NETWORK. International Journal of Neural Systems, 2008, 18, 135-145.	3.2	109
103	Time-series fractal analysis of MEG changes induced by emotional stimulation. Journal of Japan Society for Fuzzy Theory and Intelligent Informatics, 2008, 20, 117-128.	0.0	1
104	DYNAMIC MEMORIZATION CHARACTERISTICS IN NEURAL NETWORKS WITH DIFFERENT NEURONAL DYNAMICS. International Journal of Neural Systems, 2007, 17, 161-170.	3.2	4
105	Reinforcement Learning Scheme for Grouping and Anti-predator Behavior. Lecture Notes in Computer Science, 2007, , 115-122.	1.0	3
106	Dynamics of Discrete-Time Quaternionic Hopfield Neural Networks. Lecture Notes in Computer Science, 2007, , 848-857.	1.0	10
107	Reinforcement Learning Scheme for Flocking Behavior Emergence. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2007, 11, 155-161.	0.5	9
108	A Multilayered Scheme of Bidirectional Associative Memory for Multistable Perception. Lecture Notes in Computer Science, 2007, , 759-768.	1.0	0

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109	Characteristics of Flocking Behavior Model by Reinforcement Learning Scheme. , 2006, , .		12
110	Emergence of Flocking Behavior Based on Reinforcement Learning. Lecture Notes in Computer Science, 2006, , 699-706.	1.0	13
111	CHAOTIC EXPLORATION EFFECTS ON REINFORCEMENT LEARNING IN SHORTCUT MAZE TASK. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 3015-3022.	0.7	4
112	Keystroke Dynamics in Text Typing. Journal of the Japan Society of Information and Knowledge, 2006, 16, 63-68.	0.0	0
113	Qubit neural network and its learning efficiency. Neural Computing and Applications, 2005, 14, 114-121.	3.2	104
114	An Examination of Qubit Neural Network in Controlling an Inverted Pendulum. Neural Processing Letters, 2005, 22, 277-290.	2.0	51
115	Reinforcement Learning by Chaotic Exploration Generator in Target Capturing Task. Lecture Notes in Computer Science, 2005, , 1248-1254.	1.0	2
116	Perceptual Binding by Coupled Oscillatory Neural Network. Lecture Notes in Computer Science, 2005, , 139-144.	1.0	1
117	A multilayered feed-forward network based on qubit neuron model. Systems and Computers in Japan, 2004, 35, 43-51.	0.2	29
118	Effects of Chaotic Exploration on Reinforcement Maze Learning. Lecture Notes in Computer Science, 2004, , 833-839.	1.0	7
119	FRACTAL ANALYSES OF SIMULATED FISH SCHOOL MOVEMENTS IN A WATER TANK. KANSEI Engineering International, 2004, 4, 1-8.	0.2	0
120	Signal recognition by input-output correlation in associative neural networks. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi) Tj ETQq0 0 0 rgB0,Overlock 10 Tf 50 2		
121	Qubit Neural Network and Its Efficiency. Lecture Notes in Computer Science, 2003, , 304-310.	1.0	10
122	Neural Chaos Scheme of Perceptual Conflicts. Lecture Notes in Computer Science, 2003, , 170-176.	1.0	1
123	Coping with nonstationary environments: a genetic algorithm using neutral variation. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2002, 32, 497-504.	3.4	4
124	Fractal evaluations of fish school movements in simulations and real observations. Artificial Life and Robotics, 2002, 6, 36-43.	0.7	3
125	Image Compression by Layered Quantum Neural Networks. Neural Processing Letters, 2002, 16, 67-80.	2.0	57
126	Effects of neuronal dynamics on memory storing in stimulus-response scheme model. Systems and Computers in Japan, 2001, 32, 29-35.	0.2	0

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127	A network model based on qubitlike neuron corresponding to quantum circuit. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi) Tj ETQq1 1 0.784314 rgBT 40verloc	1.0	40
128	Coherent Response in a Chaotic Neural Network. Neural Processing Letters, 2000, 12, 49-58.	2.0	40
129	A Neural Chaos Model of Multistable Perception. Neural Processing Letters, 2000, 12, 267-276.	2.0	28
130	A Genetic Algorithm Inspired by the Neutral Theory and Its Application to the Formation of Ladder-Network. Transactions of the Society of Instrument and Control Engineers, 1999, 35, 1462-1468.	0.1	1
131	Dynamic Learning Characteristics of Chaotic Neural Networks with Stimulus-Response Scheme. Transactions of the Institute of Systems Control and Information Engineers, 1997, 10, 518-527.	0.1	4
132	Evolving neural networks with iterative learning scheme for associative memory. Neural Processing Letters, 1995, 2, 1-5.	2.0	1
133	An evolutionary approach to associative memory in recurrent neural networks. Neural Processing Letters, 1994, 1, 9-13.	2.0	5
134	Characteristic parameters and classification of one-dimensional cellular automata. Chaos, Solitons and Fractals, 1993, 3, 651-665.	2.5	3
135	Fuzzy realization in clinical test database system. International Journal of Bio-medical Computing, 1991, 28, 289-296.	0.5	5
136	Coherence condition for resonant neutrino oscillation. Physical Review D, 1990, 41, 2379-2383.	1.6	9
137	One-point amplitude and string-loop corrected equation of motion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 203, 251-255.	1.5	1
138	The strong CP problem and nucleon stability in the $[SU(3)]_3$ trinification model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 209, 307-310.	1.5	3
139	Unified preon models based on simple gauge groups. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 128, 290-294.	1.5	3
140	Personal Identification and Authentication Based on Keystroke Dynamics in Japanese Long-Text Input. , 0, , 212-231.		2