Alessandro E P Villa

List of Publications by Year
in descending order

184	4,476	117625	123424
papers	citations	34 h-index	61 g-index

208	208	208	3382
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Prediction ofn-Octanol/Water Partition Coefficients from PHYSPROP Database Using Artificial Neural Networks and E-State Indices. Journal of Chemical Information and Computer Sciences, 2001, 41, 1407-1421.	2.8	360
2	Estimation of Aqueous Solubility of Chemical Compounds Using E-State Indices. Journal of Chemical Information and Computer Sciences, 2001, 41, 1488-1493.	2.8	319
3	Auditory corticocortical interconnections in the cat: evidence for parallel and hierarchical arrangement of the auditory cortical areas. Experimental Brain Research, 1991, 86, 483-505.	1.5	187
4	Changes of single unit activity in the cat's auditory thalamus and cortex associated to different anesthetic conditions. Neuroscience Research, 1994, 19, 303-316.	1.9	160
5	Parvalbumin deficiency affects network properties resulting in increased susceptibility to epileptic seizures. Molecular and Cellular Neurosciences, 2004, 25, 650-663.	2.2	149
6	Neural Network Studies. 2. Variable Selection. Journal of Chemical Information and Computer Sciences, 1996, 36, 794-803.	2.8	146
7	Corticofugal modulation of the information processing in the auditory thalamus of the cat. Experimental Brain Research, 1991, 86, 506-517.	1.5	143
8	Reversible deactivation of cerebral network components. Trends in Neurosciences, 1996, 19, 535-542.	8.6	118
9	Spatiotemporal activity patterns of rat cortical neurons predict responses in a conditioned task. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 1106-1111.	7.1	112
10	Functional organization of the ventral division of the medial geniculate body of the cat: Evidence for a rostro-caudal gradient of response properties and cortical projections. Hearing Research, 1989, 39, 103-125.	2.0	108
11	Evidence for a repetitive (burst) firing pattern in a sub-population of 5-hydroxytryptamine neurons in the dorsal and median raphe nuclei of the rat. Neuroscience, 1995, 69, 189-197.	2.3	106
12	Functional organization of the medial division of the medial geniculate body of the cat: Tonotopic organization, spatial distribution of response properties and cortical connections. Hearing Research, 1989, 39, 127-142.	2.0	89
13	Physiological differentiation within the auditory part of the thalamic reticular nucleus of the cat. Brain Research Reviews, 1990, 15, 25-40.	9.0	89
14	Morphology and spatial distribution of corticothalamic terminals originating from the cat auditory cortex. Hearing Research, 1995, 83, 161-174.	2.0	88
15	Dynamics of pruning in simulated large-scale spiking neural networks. BioSystems, 2005, 79, 11-20.	2.0	88
16	Internet Software for the Calculation of the Lipophilicity and Aqueous Solubility of Chemical Compounds. Journal of Chemical Information and Computer Sciences, 2001, 41, 246-252.	2.8	74
17	Neural Network Studies. 3. Variable Selection in the Cascade-Correlation Learning Architecture. Journal of Chemical Information and Computer Sciences, 1998, 38, 651-659.	2.8	69
18	Temporal correlates of information processing during visual short-term memory. NeuroReport, 1992, 3, 113-116.	1.2	67

#	Article	IF	Citations
19	Evidence for spatiotemporal firing patterns within the auditory thalamus of the cat. Brain Research, 1990, 509, 325-327.	2.2	61
20	Efficient Partition of Learning Data Sets for Neural Network Training. Neural Networks, 1997, 10, 1361-1374.	5.9	59
21	Prediction of partition coefficient based on atomâ€type electrotopological state indices. Journal of Pharmaceutical Sciences, 1999, 88, 229-233.	3.3	57
22	A pattern grouping algorithm for analysis of spatiotemporal patterns in neuronal spike trains. 1. Detection of repeated patterns. Journal of Neuroscience Methods, 2001, 105, 1-14.	2.5	54
23	Corticofugal modulation of functional connectivity within the auditory thalamus of rat, guinea pig and cat revealed by cooling deactivation. Journal of Neuroscience Methods, 1999, 86, 161-178.	2.5	53
24	POEtic Tissue: An Integrated Architecture for Bio-inspired Hardware. Lecture Notes in Computer Science, 2003, , 129-140.	1.3	53
25	Dynamic control for synchronization of separated cortical areas through thalamic relay. NeuroImage, 2010, 52, 947-955.	4.2	53
26	EMERGENCE OF PREFERRED FIRING SEQUENCES IN LARGE SPIKING NEURAL NETWORKS DURING SIMULATED NEURONAL DEVELOPMENT. International Journal of Neural Systems, 2008, 18, 267-277.	5.2	49
27	Different tonic regulation of neuronal activity in the rat dorsal raphe and medial prefrontal cortex via 5-HT1A receptors. Neuroscience Letters, 2001, 304, 129-132.	2.1	47
28	An unsupervised automatic method for sorting neuronal spike waveforms in awake and freely moving animals. Methods, 2003, 30, 178-187.	3.8	46
29	Differences in locomotor behavior revealed in mice deficient for the calcium-binding proteins parvalbumin, calbindin D-28k or both. Behavioural Brain Research, 2007, 178, 250-261.	2.2	45
30	c-Fos expression in the auditory pathways related to the significance of acoustic signals in rats performing a sensory-motor task. Brain Research, 1999, 841, 170-183.	2.2	41
31	The calcium-binding protein parvalbumin modulates the firing 1 properties of the reticular thalamic nucleus bursting neurons. Journal of Neurophysiology, 2013, 109, 2827-2841.	1.8	41
32	Event-related potentials in an auditory oddball situation in the rat. BioSystems, 2005, 79, 207-212.	2.0	40
33	A pattern grouping algorithm for analysis of spatiotemporal patterns in neuronal spike trains. 2. Application to simultaneous single unit recordings. Journal of Neuroscience Methods, 2001, 105, 15-24.	2.5	37
34	Non-linear corticoâ€“cortical interactions modulated by cholinergic afferences from the rat basal forebrain. BioSystems, 2000, 58, 219-228.	2.0	36
35	Low-dimensional chaotic attractors in the rat brain. Biological Cybernetics, 1996, 74, 387-393.	1.3	35
36	The expressive power of analog recurrent neural networks on infinite input streams. Theoretical Computer Science, 2012, 436, 23-34.	0.9	30

#	Article	IF	Citations
37	Discharge properties of single neurons in the dorsal nucleus of the lateral lemniscus of the rat. Brain Research Bulletin, 1998, 47, 595-610.	3.0	27
38	Application of a Pruning Algorithm To Optimize Artificial Neural Networks for Pharmaceutical Fingerprinting. Journal of Chemical Information and Computer Sciences, 1998, 38, 660-668.	2.8	27
39	Learning of auditory equivalence classes for vowels by rats. Behavioural Processes, 2006, 73, 348-359.	1.1	27
40	Effect of stimulus-driven pruning on the detection of spatiotemporal patterns of activity in large neural networks. BioSystems, 2007, 89, 287-293.	2.0	27
41	The topology of the directed clique complex as a network invariant. SpringerPlus, 2016, 5, 388.	1.2	27
42	Polynomial Neural Network for Linear and Non-linear Model Selection in Quantitative-Structure Activity Relationship Studies on the Internet. SAR and QSAR in Environmental Research, 2000, 11, 263-280.	2.2	26
43	Dopamine deficiency increases synchronized activity in the rat subthalamic nucleus. Brain Research, 2012, 1434, 142-151.	2.2	26
44	An Attractor-Based Complexity Measurement for Boolean Recurrent Neural Networks. PLoS ONE, 2014, 9, e94204.	2.5	25
45	Fast combinatorial methods to estimate the probability of complex temporal patterns of spikes. Biological Cybernetics, 1997, 76, 397-408.	1.3	24
46	Dynamical cell assemblies in the rat auditory cortex in a reaction-time task. BioSystems, 1998, 48, 269-277.	2.0	23
47	Deterministic neural dynamics transmitted through neural networks. Neural Networks, 2008, 21, 799-809.	5.9	23
48	Unsupervised Spike Sorting of extracellular electrophysiological recording in subthalamic nucleus of Parkinsonian patients. BioSystems, 2005, 79, 159-171.	2.0	22
49	Nerve growth factor modulates information processing in the auditory thalamus. Brain Research Bulletin, 1996, 39, 139-147.	3.0	21
50	Dynamic transitions in global network activity influenced by the balance of excitation and inhibition. Network: Computation in Neural Systems, 1997, 8, 165-184.	3.6	21
51	Title is missing!. Neural Processing Letters, 1997, 6, 43-50.	3.2	21
52	PERPLEXUS: Pervasive Computing Framework for Modeling Complex Virtually-Unbounded Systems. , 2007, , .		21
53	Mesoscopic Segregation of Excitation and Inhibition in a Brain Network Model. PLoS Computational Biology, 2015, 11, e1004007.	3.2	21
54	An electrophysiological study of visual processing in Alzheimer's disease. Electroencephalography and Clinical Neurophysiology, 1993, 87, 97-104.	0.3	20

#	Article	IF	Citations
55	Determination of chaotic attractors in the rat brain. Journal of Statistical Physics, 1996, 84, 1379-1385.	1.2	20
56	Dynamic transitions in global network activity influenced by the balance of excitation and inhibition. Network: Computation in Neural Systems, 1997, 8, 165-184.	3.6	20
57	Cooperative behavior in a jump diffusion model for a simple network of spiking neurons. Mathematical Biosciences and Engineering, 2014, 11, 385-401.	1.9	19
58	Pharmaceutical Fingerprinting in Phase Space. 1. Construction of Phase Fingerprints. Analytical Chemistry, 1999, 71, 2423-2430.	6.5	16
59	Reconstruction of Underlying Nonlinear Deterministic Dynamics Embedded in Noisy Spike Trains. Journal of Biological Physics, 2008, 34, 325-340.	1.5	16
60	Recurrent spatiotemporal firing patterns in large spiking neural networks with ontogenetic and epigenetic processes. Journal of Physiology (Paris), 2010, 104, 137-146.	2.1	16
61	Integration and transmission of distributed deterministic neural activity in feed-forward networks. Brain Research, 2012, 1434, 17-33.	2.2	16
62	Spiking Neural Networks for Reconfigurable POEtic Tissue. Lecture Notes in Computer Science, 2003, , 165-173.	1.3	16
63	Empirical Evidence about Temporal Structure in Multi-unit Recordings. , 0, , 1-52.		16
64	On a phase diagram for random neural networks with embedded spike timing dependent plasticity. BioSystems, 2007, 89, 280-286.	2.0	15
65	Cross-frequency coupling in mesiotemporal EEG recordings of epileptic patients. Journal of Physiology (Paris), 2010, 104, 197-202.	2.1	15
66	Deterministic Behaviour of Short Time Series. Meccanica, 1999, 34, 145-152.	2.0	14
67	Synchronization-based computation through networks of coupled oscillators. Frontiers in Computational Neuroscience, 2015, 9, 97.	2.1	14
68	Effect of Emotion and Personality on Deviation from Purely Rational Decision-Making. Studies in Computational Intelligence, 2013, , 129-161.	0.9	14
69	Expressive power of first-order recurrent neural networks determined by their attractor dynamics. Journal of Computer and System Sciences, 2016, 82, 1232-1250.	1.2	12
70	Attractor dynamics of a Boolean model of a brain circuit controlled by multiple parameters. Chaos, 2018, 28, 106318.	2.5	12
71	Ketamine Modulation of the Temporal Pattern of Discharges and Spike Train Interactions in the Rat Substantia Nigra Pars Reticulata. Brain Research Bulletin, 1997, 43, 525-535.	3.0	11
72	Detection of syntonies between multiple spike trains using a coarse-grain binarization of spike count distributions. Network: Computation in Neural Systems, 2004, 15, 13-28.	3.6	11

#	Article	IF	Citations
73	On the Classification of Experimental Data Modeled Via a Stochastic Leaky Integrate and Fire Model Through Boundary Values. Bulletin of Mathematical Biology, 2006, 68, 1257-1274.	1.9	11
74	Detection of spectral instability in EEG recordings during the preictal period. Journal of Neural Engineering, 2007, 4, 173-178.	3.5	11
75	Artificial Neural Networks and Machine Learning â€“ ICANN 2014. Lecture Notes in Computer Science, 2014, , .	1.3	11
76	Imperfect Decision Making and Risk Taking Are Affected by Personality. Studies in Computational Intelligence, 2015, , 145-184.	0.9	11
77	The Super-Turing Computational Power of Interactive Evolving Recurrent Neural Networks. Lecture Notes in Computer Science, 2013, , 58-65.	1.3	11
78	Functional correlates of a three-component spatial model of the alpha rhythm. Brain Research, 1992, 582, 159-162.	2.2	10
79	<title>Spatiotemporal activity patterns detected from single cell measurements from behaving animals</title>. , 1999, 3728, 20.		10
80	Visual thalamocortical circuits in parvalbumin-deficient mice. Brain Research, 2013, 1536, 107-118.	2.2	10
81	Fuzzy Clustering for Exploratory Analysis of EEG Event-Related Potentials. IEEE Transactions on Fuzzy Systems, 2020, 28, 28-38.	9.8	10
82	Nonlinear Dynamics Emerging in Large Scale Neural Networks with Ontogenetic and Epigenetic Processes. Lecture Notes in Computer Science, 2007, , 579-588.	1.3	10
83	Stimulus congruence affects perceptual processes in a novel Go/Nogo conflict paradigm in rats. Behavioural Processes, 1999, 48, 69-88.	1.1	9
84	Pharmaceutical Fingerprinting in Phase Space. 2. Pattern Recognition. Analytical Chemistry, 1999, 71, 2431-2439.	6.5	9
85	Event-Related Potentials during a Gambling Task in Young Adults with Attention-Deficit/Hyperactivity Disorder. Frontiers in Human Neuroscience, 2018, 12, 79.	2.0	9
86	Complex temporal patterns processing by a neural mass model of a cortical column. Cognitive Neurodynamics, 2019, 13, 379-392.	4.0	9
87	A Hierarchical Classification of First-Order Recurrent Neural Networks. Chinese Journal of Physiology, 2010, 53, 407-416.	1.0	9
88	Preferential induction of fos-like immunoreactivity in granule cells of the cochlear nucleus by acoustic stimulation in behaving rats. Neuroscience Letters, 1999, 259, 123-126.	2.1	8
89	Hardware optimization and serial implementation of a novel spiking neuron model for the POEtic tissue. BioSystems, 2004, 76, 201-208.	2.0	8
90	Artificial Neural Networks and Machine Learning â€“ ICANN 2013. Lecture Notes in Computer Science, 2013, , .	1.3	8

#	Article	IF	Citations
91	Attention Networks in ADHD Adults after Working Memory Training with a Dual n-Back Task. Brain Sciences, 2020, 10, 715.	2.3	8
92	Artificial Neural Networks and Machine Learning â€“ ICANN 2016. Lecture Notes in Computer Science, 2016, , .	1.3	7
93	Consistency of heterogeneous synchronization patterns in complex weighted networks. Chaos, 2017, 27, 031102.	2.5	7
94	Detection of syntonies between multiple spike trains using a coarse-grain binarization of spike count distributions. Network: Computation in Neural Systems, 2004, 15, 13-28.	3.6	7
95	The chromosome idiogram of Nicotiana plumbaginifolia. Genetica, 1984, 64, 145-148.	1.1	6
96	Assessing Connections in Networks of Biological Neurons. , 1997, , 77-92.		6
97	Correlation dimension for paired discrete time series. Journal of Statistical Physics, 1997, 89, 877-884.	1.2	6
98	The POEtic Electronic Tissue and Its Role in the Emulation of Large-Scale Biologically Inspired Spiking Neural Networks Models. Complexus, 2006, 3, 32-47.	0.6	6
99	On-Line Real-Time Oriented Application for Neuronal Spike Sorting with Unsupervised Learning. Lecture Notes in Computer Science, 2005, , 109-114.	1.3	6
100	Stimulus-Driven Unsupervised Synaptic Pruning in Large Neural Networks. Lecture Notes in Computer Science, 2005, , 59-68.	1.3	6
101	Examples of the Investigation of Neural Information Processing by Point Process Analysis. , 1994, , 111-127.		6
102	LSTM and 1-D Convolutional Neural Networks for Predictive Monitoring of the Anaerobic Digestion Process. Lecture Notes in Computer Science, 2019, , 725-736.	1.3	6
103	Computer assisted neurophysiological analysis of cell assemblies activity. Neurocomputing, 2001, 38-40, 1025-1030.	5.9	5
104	Dopamine modulation of activity of cat sensorimotor cortex neurons during conditioned reflexes. Neuroscience Letters, 2002, 330, 171-174.	2.1	5
105	The effects of activation of glutamate ionotropic connections of neurons in the sensorimotor cortex in a conditioned reflex. Neuroscience and Behavioral Physiology, 2003, 33, 479-488.	0.4	5
106	Computational capabilities of recurrent neural networks based on their attractor dynamics. , 2015, , .		5
107	Recurrent Neural Networks and Super-Turing Interactive Computation. Springer Series in Bio-/neuroinformatics, 2015, , 1-29.	0.1	5
108	A computer-aided three-dimensional reconstruction of brain structures using high level computer graphics. International Journal of Bio-medical Computing, 1987, 20, 289-302.	0.5	4

#	Article	IF	Citations
109	Title is missing!. Neural Processing Letters, 1997, 6, 51-59.	3.2	4
110	Correlation Dimension for Two Experimental Time Series. Meccanica, 1998, 33, 381-396.	2.0	4
111	Dopamine modulation of glutamate metabotropic receptors in conditioned reaction of sensory motor cortex neurons of the cat. Neuroscience Letters, 2004, 356, 127-130.	2.1	4
112	Attractor Dynamics Driven by Interactivity in Boolean Recurrent Neural Networks. Lecture Notes in Computer Science, 2016, , 115-122.	1.3	4
113	Operant conditioning deficits and modified local field potential activities in parvalbumin-deficient mice. Scientific Reports, 2021, 11, 2970.	3.3	4
114	Implementation of Biologically Plausible Spiking Neural Networks Models on the POEtic Tissue. Lecture Notes in Computer Science, 2005, , 188-197.	1.3	4
115	Hardware Optimization of a Novel Spiking Neuron Model for the POEtic tissue.. Lecture Notes in Computer Science, 2003, , 113-120.	1.3	4
116	Neural Coding in the Neuroheuristic Perspective. Biosemiotics Bookseries, 2008, , 357-377.	0.3	4
117	Variable Selection in the Cascade-Correlation Learning Architecture. , 2000, , 472-473.		4
118	Effect of Increasing Inhibitory Inputs on Information Processing Within a Small Network of Spiking Neurons. , 2007, , 23-30.		4
119	A Framework for Simulation and Analysis of Dynamically Organized Distributed Neural Networks. Lecture Notes in Computer Science, 2009, , 277-286.	1.3	4
120	A Hierarchical Classification of First-Order Recurrent Neural Networks. Lecture Notes in Computer Science, 2010, , 142-153.	1.3	4
121	Response Adaptation in Barrel Cortical Neurons Facilitates Stimulus Detection during Rhythmic Whisker Stimulation in Anesthetized Mice. ENeuro, 2019, 6, ENEURO.0471-18.2019.	1.9	4
122	Dynamics of Firing Patterns in Evolvable Hierarchically Organized Neural Networks. Lecture Notes in Computer Science, 0, , 296-307.	1.3	4
123	Pattern grouping algorithm and de-convolution filtering of non-stationary correlated Poisson processes. Neurocomputing, 2001, 38-40, 1709-1714.	5.9	3
124	Influence of the temporal distribution of electric pulses on transcallosal single unit responses. BioSystems, 2007, 89, 143-153.	2.0	3
125	Reciprocal projections in hierarchically organized evolvable neural circuits affect EEG-like signals. Brain Research, 2012, 1434, 266-276.	2.2	3
126	Attractor-based complexity of a Boolean model of the basal ganglia-thalamocortical network. , 2016, , .		3

#	Article	IF	Citations
127	Theoretical Models of Decision-Making in the Ultimatum Game: Fairness vs. Reason. Advances in Cognitive Neurodynamics, 2016, , 185-191.	0.1	3
128	An ERP Study Reveals How Training with Dual N-Back Task Affects Risky Decision Making in a Gambling Task in ADHD Patients. Advances in Cognitive Neurodynamics, 2018, , 271-277.	0.1	3
129	Early Attentional Modulation by Working Memory Training in Young Adult ADHD Patients during a Risky Decision-Making Task. Brain Sciences, 2020, 10, 38.	2.3	3
130	Neuronal Cell Death and Synaptic Pruning Driven by Spike-Timing Dependent Plasticity. Lecture Notes in Computer Science, 2006, , 953-962.	1.3	3
131	Transmission of Distributed Deterministic Temporal Information through a Diverging/Converging Three-Layers Neural Network. Lecture Notes in Computer Science, 2010, , 145-154.	1.3	3
132	Functional Interactions in Hierarchically Organized Neural Networks Studied with Spatiotemporal Firing Patterns and Phase-Coupling Frequencies. Chinese Journal of Physiology, 2010, 53, 382-395.	1.0	3
133	Detection of syntonies between multiple spike trains using a coarse-grain binarization of spike count distributions. Network: Computation in Neural Systems, 2004, 15, 13-28.	3.6	3
134	Computer Assisted Neurophysiology by a Distributed Java Program. Journal of Biomedical Informatics, 1998, 31, 465-475.	0.7	2
135	A Bio-Inspired Agent Framework for Hardware Accelerated Distributed Pervasive Applications. , 2009, , .		2
136	Unsupervised Analysis of Event-Related Potentials (ERPs) During an Emotional Go/NoGo Task. Lecture Notes in Computer Science, 2017, , 151-161.	1.3	2
137	Unsupervised Recognition of Neuronal Discharge Waveforms for On-line Real-Time Operation. Lecture Notes in Computer Science, 2005, , 29-38.	1.3	2
138	Low-dimensional chaotic attractors in the rat brain. Biological Cybernetics, 1996, 74, 387-393.	1.3	2
139	Robust Structural Modeling and Outlier Detection with GMDH-Type Polynomial Neural Networks. Lecture Notes in Computer Science, 2005, , 881-886.	1.3	2
140	OpenAdap.net: Evolvable Information Processing Environment. Lecture Notes in Computer Science, 2007, , 227-236.	1.3	2
141	Effect of Feedback Strength in Coupled Spiking Neural Networks. Lecture Notes in Computer Science, 2008, , 646-654.	1.3	2
142	Electrophysiological Markers of Fairness and Selfishness Revealed by a Combination of Dictator and Ultimatum Games. Frontiers in Systems Neuroscience, 2022, 16, .	2.5	2
143	DETECTION OF DETERMINISTIC DYNAMICS IN SHORT DISCRETE TIME SERIES. , 2000, , .		1
144	NON-LINEAR COUPLING OF LOCAL FIELD POTENTIALS ACROSS CORTICAL SITES IN PARVALBUMIN-DEFICIENT MICE. , 2000, , .		1

#	Article	IF	Citations
145	Nonlinear Oscillation Models for Spike Separation. Lecture Notes in Computer Science, 2002, , 61-70.	1.3	1
146	Evolution of C-Fos Expression in Auditory Structures During a Sensori-Motor Learning in Rats. , 1997, , 49-55.		1
147	Deterministic Nonlinear Spike Train Filtered by Spiking Neuron Model. Lecture Notes in Computer Science, 2007, , 924-933.	1.3	1
148	An Effect of Short and Long Reciprocal Projections on Evolution of Hierarchical Neural Networks. Lecture Notes in Computer Science, 2012, , 371-378.	1.3	1
149	On Super-Turing Neural Computation. Advances in Cognitive Neurodynamics, 2015, , 307-312.	0.1	1
150	Visual Processing in Alzheimerâ€™s Disease. Advances in Behavioral Biology, 1995, , 1-11.	0.2	1
151	An STDP Rule for the Improvement and Stabilization of the Attractor Dynamics of the Basal Ganglia-Thalamocortical Network. Lecture Notes in Computer Science, 2018, , 693-702.	1.3	1
152	VISUAL PROCESSING OF STEADY-STATE GRATINGS IN ALZHEIMERÊ¼S DISEASE. Journal of Clinical Neurophysiology, 1993, 10, 241.	1.7	0
153	Low-dimensional chaotic attractors in the rat brain. Biological Cybernetics, 1996, 75, 509-509.	1.3	0
154	Nonlinear oscillation models for the spike sorting of single units recorded extracellularly. , 0, , .		0
155	Detection of Dynamical Systems from Noisy Multivariate Time Series. , 2007, , 3-17.		0
156	JubiTool: Unified design flow for the Perplexus SIMD hardware accelerator. , 2009, , .		0
157	Extending existing applications functionality through OpenAdap.net. , 2010, , .		0
158	Advances in structural modeling robust to outliers in explanatory and response variables. , 2010, , .		0
159	Weighted Clique Analysis Reveals Hierarchical Neuronal Network Dynamics. Lecture Notes in Computer Science, 2017, , 317-325.	1.3	0
160	Granger Causality to Reveal Functional Connectivity in the Mouse Basal Ganglia-Thalamocortical Circuit. Lecture Notes in Computer Science, 2018, , 393-402.	1.3	0
161	ERFo: An Algorithm for Extracting a Range of Optimal Frequencies for Filtering Electrophysiological Recordings. Advances in Cognitive Neurodynamics, 2018, , 227-233.	0.1	0
162	A Memory-Based STDP Rule for Stable Attractor Dynamics in Boolean Recurrent Neural Networks. , 2019, , .		0

#	Article	IF	Citations
163	ERPs in Controls and ADHD Patients During Dual N-Back Task. Advances in Cognitive Neurodynamics, 2021, , 189-203.	0.1	0
164	Event-Related Potentials and Fast Optical Imaging of Cortical Activity During an Auditory Oddball Task. Advances in Cognitive Neurodynamics, 2021, , 155-175.	0.1	0
165	Initial Topology in Hierarchically Organized Evolvable Neural Networks Determines the Emergence of Synfire Chains. Advances in Cognitive Neurodynamics, 2021, , 247-247.	0.1	0
166	Causal Interactions Among Cortical Regions During Sleep Based on fNIRS Recordings. Advances in Cognitive Neurodynamics, 2021, , 273-274.	0.1	0
167	Unsupervised Analysis of EEG Signals Reveals Common Personality Traits During an Iterated Ultimatum Game. Advances in Cognitive Neurodynamics, 2021, , 275-276.	0.1	0
168	Training Parameters with Dual N-Back Task Affect the Outcome of the Attentional Network Task in ADHD Patients. Advances in Cognitive Neurodynamics, 2021, , 281-282.	0.1	0
169	Computer Assisted Neurophysiology by a Distributed Java Program. , 2001, , 261-272.		0
170	Recognition of Neurons Impulses with the Use of Nonlinear Dynamic Equations. Journal of Automation and Information Sciences, 2001, 33, 10.	0.7	0
171	Nonparametric On-Line Detection of Changes in Signal Spectral Characteristics for Early Prediction of Epilepsy Seizure Onset. Journal of Automation and Information Sciences, 2004, 36, 35-45.	0.7	0
172	Physical Mapping of Spiking Neural Networks Models on a Bio-inspired Scalable Architecture. Lecture Notes in Computer Science, 2006, , 936-943.	1.3	0
173	Functional Connectivity Driven by External Stimuli in a Network of Hierarchically Organized Neural Modules. Lecture Notes in Computer Science, 2010, , 135-144.	1.3	0
174	Dynamical Systems and Accurate Temporal Information Transmission in Neural Networks. , 2011, , 61-65.		0
175	Distributed Deterministic Temporal Information Propagated by Feedforward Neural Networks. Lecture Notes in Computer Science, 2011, , 258-265.	1.3	0
176	Responder?s specific ERP cognitive component in the ultimatum game. Frontiers in Human Neuroscience, 0, 5, .	2.0	0
177	Spike Transmission on Diverging/Converging Neural Network and Its Implementation on a Multilevel Modeling Platform. Lecture Notes in Computer Science, 2012, , 272-279.	1.3	0
178	Learning and memory phenomena in a complex sensory environment: a neuroheuristic approach. IEICE Proceeding Series, 2014, 1, 300-303.	0.0	0
179	Multilevel modeling platform and its application for modeling in neuroscience. IEICE Proceeding Series, 2014, 1, 296-299.	0.0	0
180	Graph analysis on simulate hierarchical complex networks dynamic structure. IEICE Proceeding Series, 2014, 1, 304-307.	0.0	0

#	Article	IF	Citations
181	Recognition of Signals with Application of Nonlinear Equations of Dynamics. Journal of Automation and Information Sciences, 1999, 31, 81-87.	0.7	0
182	Neural Dynamics Associated to Preferred Firing Sequences. Advances in Cognitive Neurodynamics, 2015, , 597-604.	0.1	0
183	Effect of the Background Activity on the Reconstruction of Spike Train by Spike Pattern Detection. Lecture Notes in Computer Science, 2008, , 607-616.	1.3	0
184	Determination of chaotic attractors in short discrete time series. , 0, , .		0