

Igor Aizenberg

List of Publications by Year in descending order

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474
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine Learning-Based Monitoring of DC-DC Converters in Photovoltaic Applications. Algorithms, 2022, 15, 74.	2.1	14
2	A Neural Network Classifier with Multi-Valued Neurons for Analog Circuit Fault Diagnosis. Electronics (Switzerland), 2021, 10, 349.	3.1	13
3	Failure Prevention and Malfunction Localization in Underground Medium Voltage Cables. Energies, 2021, 14, 85.	3.1	9
4	Convolutional Neural Network with Multi-Valued Neurons. , 2020, , .		2
5	Impulse Noise Filtering using MLMVN. , 2020, , .		2
6	MLMVN in Speckle Noise Filtering. , 2020, , .		1
7	A MLMVN with Arbitrary Complex-Valued Inputs and a Hybrid Testability Approach for the Extraction of Lumped Models Using FRA. Journal of Artificial Intelligence and Soft Computing Research, 2019, 9, 5-19.	4.3	2
8	Image Recognition using MLMVN and Frequency Domain Features. , 2018, , .		9
9	Cloud Datacenter Workload Prediction Using Complex-Valued Neural Networks. , 2018, , .		6
10	Analysis of EEG Using Multilayer Neural Network with Multi-Valued Neurons. , 2018, , .		4
11	Towards Quantum Computing Algorithms for Datacenter Workload Predictions. , 2018, , .		6
12	MLMVN as an intelligent image filter. , 2017, , .		2
13	Multiple-Valued Logic and Complex-Valued Neural Networks. Studies in Fuzziness and Soft Computing, 2017, , 153-171.	0.8	10
14	Intelligent Image Filtering using Multilayer Neural Network with Multi-Valued Neurons. IS&T International Symposium on Electronic Imaging, 2016, 28, 1-9.	0.4	1
15	System identification using FRA and a modified MLMVN with arbitrary complex-valued inputs. , 2016, , .		6
16	GPU simulator of multilayer neural network based on multi-valued neurons. , 2016, , .		5
17	Multilayer Neural Network with Multi-Valued Neurons in time series forecasting of oil production. Neurocomputing, 2016, 175, 980-989.	5.9	90
18	Batch linear least squares-based learning algorithm for MLMVN with soft margins. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
19	MLMVN With Soft Margins Learning. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 1632-1644.	11.3	28
20	Hebbian and error-correction learning for complex-valued neurons. Soft Computing, 2013, 17, 265-273.	3.6	8
21	A modified error-correction learning rule for multilayer neural network with multi-valued neurons. , 2013, , .		1
22	Intelligent detection of impulse noise using multilayer neural network with multi-valued neurons. Proceedings of SPIE, 2012, , .	0.8	1
23	A modified learning algorithm for the multilayer neural network with multi-valued neurons based on the complex QR decomposition. Soft Computing, 2012, 16, 563-575.	3.6	47
24	Classification of blurred textures using multilayer neural network based on multi-valued neurons. , 2011, , .		5
25	Complex-Valued Neural Networks with Multi-Valued Neurons. Studies in Computational Intelligence, 2011, , .	0.9	144
26	Intelligent edge enhancement using multilayer neural network based on multi-valued neurons. Proceedings of SPIE, 2011, , .	0.8	2
27	Recognition of Blurred Images Using Multilayer Neural Network Based on Multi-valued Neurons. , 2011, , .		6
28	Why We Need Complex-Valued Neural Networks?. Studies in Computational Intelligence, 2011, , 1-53.	0.9	7
29	On the Projection of k -Valued Non-linearly Separable Problems into m -Valued Linearly Separable Problems. Studies in Computational Intelligence, 2011, , 223-235.	0.9	0
30	Multi-Valued Neurons: Hebbian and Error-Correction Learning. Lecture Notes in Computer Science, 2011, , 33-40.	1.3	0
31	Learning nonlinearly separable mod k addition problem using a single multi-valued neuron with a periodic activation function. , 2010, , .		6
32	Complex-Valued Neurons with Phase-Dependent Activation Functions. Lecture Notes in Computer Science, 2010, , 3-10.	1.3	3
33	Learning of the Non-threshold Functions of Multiple-Valued Logic by a Single Multi-valued Neuron with a Periodic Activation Function. , 2010, , .		1
34	Periodic Activation Function and a Modified Learning Algorithm for the Multivalued Neuron. IEEE Transactions on Neural Networks, 2010, 21, 1939-1949.	4.2	33
35	Soft Computing Methods for Prediction of Replication Origins in Caudoviruses. Multiple-Valued Logic (ISMVL), Proceedings of the International Symposium on, 2008, , .	0.0	0
36	Learning in networks: Complex-valued neurons, pruning, and rule extraction. , 2008, , .		1

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37	Blur Identification by Multilayer Neural Network Based on Multivalued Neurons. IEEE Transactions on Neural Networks, 2008, 19, 883-898.	4.2	142
38	The Genetic Code as a Multiple-Valued Function and Its Implementation Using Multilayer Neural Network Based on Multi-Valued Neurons. Multiple-Valued Logic (ISMVL), Proceedings of the International Symposium on, 2007, , .	0.0	3
39	Multilayer Feedforward Neural Network Based on Multi-valued Neurons (MLMVN) and a Backpropagation Learning Algorithm. Soft Computing, 2007, 11, 169-183.	3.6	181
40	Solving the XOR and parity N problems using a single universal binary neuron. Soft Computing, 2007, 12, 215-222.	3.6	28
41	Solving Selected Classification Problems in Bioinformatics Using Multilayer Neural Network Based on Multi-Valued Neurons (MLMVN). Lecture Notes in Computer Science, 2007, , 874-883.	1.3	7
42	A Feedforward Neural Network based on Multi-Valued Neurons. , 2005, , 599-612.		39
43	Temporal classification of Drosophila segmentation gene expression patterns by the multi-valued neural recognition method. Mathematical Biosciences, 2002, 176, 145-159.	1.9	22
44	Image processing using cellular neural networks based on multi-valued and universal binary neurons. Journal of Signal Processing Systems, 2002, 32, 169-188.	1.0	15