Janusz A Starzyk

List of Publications by Year
in descending order

64 papers	1,380 citations	471509 17 h-index	345221 36 g-index
67 all docs	67 docs citations	67 times ranked	1108 citing authors

#	Article	IF	Citations
1	Robust Exponential Stability of Uncertain Delayed Neural Networks With Stochastic Perturbation and Impulse Effects. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 866-875.	11.3	313
2	Fast Vanishing-Point Detection in Unstructured Environments. IEEE Transactions on Image Processing, 2012, 21, 425-430.	9.8	125
3	Entropy-Based Optimum Test Points Selection for Analog Fault Dictionary Techniques. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 754-761.	4.7	111
4	Optimized Approximation Algorithm in Neural Networks Without Overfitting. IEEE Transactions on Neural Networks, 2008, 19, 983-995.	4.2	111
5	Neural Modeling of Episodic Memory: Encoding, Retrieval, and Forgetting. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1574-1586.	11.3	81
6	A Mathematical Foundation for Improved Reduct Generation in Information Systems. Knowledge and Information Systems, 2000, 2, 131-146.	3.2	60
7	Memristor Crossbar Architecture for Synchronous Neural Networks. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 2390-2401.	5.4	46
8	Spatioâ€"Temporal Memories for Machine Learning: A Long-Term Memory Organization. IEEE Transactions on Neural Networks, 2009, 20, 768-780.	4.2	37
9	A generalized fault diagnosis method in dynamic analogue circuits. International Journal of Circuit Theory and Applications, 2002, 30, 487-510.	2.0	34
10	Neural Network Structure for Spatio-Temporal Long-Term Memory. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 971-983.	11.3	34
11	Anticipation-Based Temporal Sequences Learning in Hierarchical Structure. IEEE Transactions on Neural Networks, 2007, 18, 344-358.	4.2	33
12	Power quality disturbances analysis based on EDMRA method. International Journal of Electrical Power and Energy Systems, 2009, 31, 258-268.	5.5	32
13	Self-Organizing Learning Array. IEEE Transactions on Neural Networks, 2005, 16, 355-363.	4.2	29
14	A COMPUTATIONAL MODEL OF MACHINE CONSCIOUSNESS. International Journal of Machine Consciousness, 2011, 03, 255-281.	1.0	29
15	Motivated learning for the development of autonomous systems. Cognitive Systems Research, 2012, 14, 10-25.	2.7	25
16	Motivated Learning for Computational Intelligence. , 0, , 265-292.		24
17	Integration of Semantic and Episodic Memories. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 3084-3095.	11.3	23
18	Low-Power Tunable Analog Circuit Blocks Based on Nanoscale Double-Gate MOSFETs. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2007, 54, 571-575.	2.2	22

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19	MLECOG: Motivated Learning Embodied Cognitive Architecture. IEEE Systems Journal, 2017, 11, 1272-1283.	4.6	18
20	Fast direct GPS P-Code acquisition. GPS Solutions, 2003, 7, 168-175.	4.3	17
21	A self-organizing approach to episodic memory modeling. , 2010, , .		17
22	Opportunistic Behavior in Motivated Learning Agents. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1735-1746.	11.3	16
23	Use of nano-scale double-gate MOSFETs in low-power tunable current mode analog circuits. Analog Integrated Circuits and Signal Processing, 2008, 54, 211-217.	1.4	15
24	Mental saccades in control of cognitive process. , 2011, , .		15
25	A Novel Low-Power Logic Circuit Design Scheme. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2007, 54, 176-180.	2.2	10
26	Fast neural network adaptation with associative pulsing neurons. , 2017, , .		9
27	Associative Memories With Synaptic Delays. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 331-344.	11.3	9
28	A spatio-temporal Long-term Memory approach for visual place recognition in mobile robotic navigation. Robotics and Autonomous Systems, 2013, 61, 1744-1758.	5.1	8
29	Needs, Pains, and Motivations in Autonomous Agents. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 2528-2540.	11.3	8
30	Episodic Memory in Minicolumn Associative Knowledge Graphs. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 3505-3516.	11.3	7
31	Motivated learning in autonomous systems. , 2011, , .		5
32	Dynamic Probability Estimator for Machine Learning. IEEE Transactions on Neural Networks, 2004, 15, 298-308.	4.2	4
33	Associative Learning in Hierarchical Self-Organizing Learning Arrays. IEEE Transactions on Neural Networks, 2006, 17, 1460-1470.	4.2	4
34	A hybrid self-organizing Neural Gas based network. , 2008, , .		4
35	Multi-Class and Multi-Label Classification Using Associative Pulsing Neural Networks. , 2018, , .		4
36	Opportunistic Motivated Learning Agents. Lecture Notes in Computer Science, 2012, , 442-449.	1.3	4

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37	GPS signal acquisition using the repeatability of successive code phase measurements. GPS Solutions, 2008, 12, 43-53.	4.3	3
38	Spatio-temporal sequence learning of visual place cells for robotic navigation. , 2010, , .		3
39	Integrating self-organizing neural network and Motivated Learning for coordinated multi-agent reinforcement learning in multi-stage stochastic game. , 2014, , .		3
40	Associative Fine-Tuning of Biologically Inspired Active Neuro-Associative Knowledge Graphs. , 2018, , .		3
41	A Hierarchical Self-organizing Associative Memory for Machine Learning. Lecture Notes in Computer Science, 2007, , 413-423.	1.3	3
42	Online Dynamic Value System for Machine Learning. Lecture Notes in Computer Science, 2007, , 441-448.	1.3	3
43	Simulation of a Motivated Learning Agent. IFIP Advances in Information and Communication Technology, 2013, , 205-214.	0.7	3
44	Compact Tunable Current-Mode Analog Circuits Using DGMOSFETs. SOI Conference, Proceedings of the IEEE International, 2006, , .	0.0	2
45	Transitioning from motivated to cognitive agent model. , 2013, , .		2
46	Concurrent Associative Memories With Synaptic Delays. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3736-3747.	11.3	2
47	Fault Diagnosis in Mixed-Signal Low Testability System. Analog Integrated Circuits and Signal Processing, 2001, 28, 161-172.	1.4	1
48	Wavelet Transformation and Signal Discrimination for HRR Radar Target Recognition. Multidimensional Systems and Signal Processing, 2003, 14, 9-24.	2.6	1
49	A Biopsychically Inspired Cognitive System for Intelligent Agents in Aerospace Applications. , 2012, , .		1
50	Comparison of Two Memristor Based Neural Network Learning Schemes for Crossbar Architecture. Lecture Notes in Computer Science, 2013, , 492-499.	1.3	1
51	Integrating Motivated Learning and k-Winner-Take-All to Coordinate Multi-agent Reinforcement Learning. , 2014, , .		1
52	Advancing motivated learning with goal creation. , 2014, , .		1
53	Lumped mini-column associative knowledge graphs. , 2017, , .		1
54	Building Internal Scene Representation inÂCognitive Agents. Advances in Intelligent Systems and Computing, 2016, , 479-491.	0.6	1

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55	Visual Saccades for Object Recognition. Lecture Notes in Computer Science, 2015, , 778-788.	1.3	1
56	Sparse Coding in Sparse Winner Networks. Lecture Notes in Computer Science, 2007, , 534-541.	1.3	1
57	A neural network based on sequence learning for speech recognition. , 2008, , .		0
58	Mental development and representation building through motivated learning. , 2010, , .		0
59	Sequence recognition with spatio-temporal long-term memory organization. , 2012, , .		0
60	Retrieving Impressions from Semantic Memory Modeled with Associative Pulsing Neural Networks. , 2018, , .		0
61	A Question Answer Approach to Building Semantic Memory. Lecture Notes in Computer Science, 2012, , 716-723.	1.3	0
62	Managing Machine's Motivations. Lecture Notes in Computer Science, 2014, , 278-289.	1.3	0
63	Temporal Coding of Neural Stimuli. Lecture Notes in Computer Science, 2019, , 607-621.	1.3	0
64	Hybrid Pipeline Structure for Self-Organizing Learning Array. Lecture Notes in Computer Science, 2007, , 956-964.	1.3	0