

Bart Kosko

List of Publications by Year in descending order

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56
papers

5,801
citations

279487

23
h-index

315357

38
g-index

60
all docs

60
docs citations

60
times ranked

2692
citing authors

#	ARTICLE	IF	CITATIONS
1	Uniform Mixture Convergence of Continuously Transformed Fuzzy Systems. Lecture Notes in Networks and Systems, 2022, , 203-216.	0.5	0
2	Erratum to "Bidirectional Associative Memories: Unsupervised Hebbian Learning to Bidirectional Backpropagation". IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2635-2635.	5.9	0
3	Bayesian Pruned Random Rule Foams for XAI. , 2021, , .		1
4	Bayesian Bidirectional Backpropagation Learning. , 2021, , .		2
5	Bidirectional Associative Memories: Unsupervised Hebbian Learning to Bidirectional Backpropagation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 103-115.	5.9	15
6	Bidirectional Backpropagation for High-Capacity Blocking Networks. , 2021, , .		1
7	Bidirectional Backpropagation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 1982-1994.	5.9	14
8	Convergence of Generalized Probability Mixtures That Describe Adaptive Fuzzy Rule-based Systems. , 2020, , .		3
9	High Capacity Neural Block Classifiers with Logistic Neurons and Random Coding. , 2020, , .		4
10	Noise can speed backpropagation learning and deep bidirectional pretraining. Neural Networks, 2020, 129, 359-384.	3.3	22
11	Noise-boosted bidirectional backpropagation and adversarial learning. Neural Networks, 2019, 120, 9-31.	3.3	20
12	Noise can speed Markov chain Monte Carlo estimation and quantum annealing. Physical Review E, 2019, 100, 053309.	0.8	10
13	Noise Benefits in Feedback Machine Learning: Bidirectional Backpropagation. Understanding Complex Systems, 2019, , 267-275.	0.3	2
14	Bayes Theorem Extends to Overlapping Hypotheses. , 2019, , .		0
15	Converting Neural Networks to Rule Foam. , 2019, , .		4
16	Additive Fuzzy Systems: From Generalized Mixtures to Rule Continua. International Journal of Intelligent Systems, 2018, 33, 1573-1623.	3.3	19
17	Training Generative Adversarial Networks with Bidirectional Backpropagation. , 2018, , .		3
18	Fuzzy cognitive maps of public support for insurgency and terrorism. Journal of Defense Modeling and Simulation, 2017, 14, 17-32.	1.2	33

#	ARTICLE	IF	CITATIONS
19	Generalized mixture representations and combinations for additive fuzzy systems. , 2017, , .		1
20	Using noise to speed up video classification with recurrent backpropagation. , 2017, , .		10
21	The Noisy Expectation-Maximization Algorithm for Multiplicative Noise Injection. Fluctuation and Noise Letters, 2016, 15, 1650007.	1.0	20
22	Noise-enhanced convolutional neural networks. Neural Networks, 2016, 78, 15-23.	3.3	86
23	Using Noise to Speed up Markov Chain Monte Carlo Estimation. Procedia Computer Science, 2015, 53, 113-120.	1.2	15
24	Noise-benefit forbidden-interval theorems for threshold signal detectors based on cross correlations. Physical Review E, 2014, 90, 052124.	0.8	6
25	Noise benefits in backpropagation and deep bidirectional pre-training. , 2013, , .		19
26	Noisy hidden Markov models for speech recognition. , 2013, , .		7
27	THE NOISY EXPECTATIONâ€“MAXIMIZATION ALGORITHM. Fluctuation and Noise Letters, 2013, 12, 1350012.	1.0	26
28	Triply fuzzy function approximation for hierarchical Bayesian inference. Fuzzy Optimization and Decision Making, 2012, 11, 241-268.	3.4	3
29	Noise Benefits in Quantizer-Array Correlation Detection and Watermark Decoding. IEEE Transactions on Signal Processing, 2011, 59, 488-505.	3.2	58
30	Noise benefits in the expectation-maximization algorithm: Nem theorems and models. , 2011, , .		6
31	Optimal Mean-Square Noise Benefits in Quantizer-Array Linear Estimation. IEEE Signal Processing Letters, 2010, 17, 1005-1009.	2.1	36
32	Quantizer noise benefits in nonlinear signal detection with alpha-stable channel noise. , 2009, , .		2
33	Adaptive fuzzy priors for Bayesian inference. , 2009, , .		0
34	Neural signal-detection noise benefits based on error probability. , 2009, , .		1
35	Quantum forbidden-interval theorems for stochastic resonance. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 465309.	0.7	18
36	Optimal Noise Benefits in Neymanâ€“Pearson and Inequality-Constrained Statistical Signal Detection. IEEE Transactions on Signal Processing, 2009, 57, 1655-1669.	3.2	107

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37	Optimal noise benefits in Neyman-Pearson signal detection. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	5
38	Stochastic Resonance in Continuous and Spiking Neuron Models With Levy Noise. IEEE Transactions on Neural Networks, 2008, 19, 1993-2008.	4.8	107
39	Noise-Enhanced Detection of Subthreshold Signals With Carbon Nanotubes. IEEE Nanotechnology Magazine, 2006, 5, 613-627.	1.1	60
40	Adaptive Stochastic Resonance in Noisy Neurons Based on Mutual Information. IEEE Transactions on Neural Networks, 2004, 15, 1526-1540.	4.8	97
41	Probable equivalence, superpower sets, and superconditionals. International Journal of Intelligent Systems, 2004, 19, 1151-1171.	3.3	10
42	Robust stochastic resonance for simple threshold neurons. Physical Review E, 2004, 70, 031911.	0.8	46
43	Stochastic resonance in noisy threshold neurons. Neural Networks, 2003, 16, 755-761.	3.3	97
44	Nanosignal Processing: Stochastic Resonance in Carbon Nanotubes That Detect Subthreshold Signals. Nano Letters, 2003, 3, 1683-1686.	4.5	65
45	Robust stochastic resonance: Signal detection and adaptation in impulsive noise. Physical Review E, 2001, 64, 051110.	0.8	77
46	Neural Fuzzy Agents for Profile Learning and Adaptive Object Matching. Presence: Teleoperators and Virtual Environments, 1998, 7, 617-637.	0.3	13
47	Fuzzy prediction and filtering in impulsive noise. Fuzzy Sets and Systems, 1996, 77, 15-33.	1.6	27
48	Fuzzy throttle and brake control for platoons of smart cars. Fuzzy Sets and Systems, 1996, 84, 209-234.	1.6	49
49	Optimal fuzzy rules cover extrema. International Journal of Intelligent Systems, 1995, 10, 249-255.	3.3	78
50	NEURAL FUZZY ELLIPSOIDAL LEARNING AND PLATOON CONTROL. , 1995, , 151-165.		0
51	Virtual Worlds as Fuzzy Cognitive Maps. Presence: Teleoperators and Virtual Environments, 1994, 3, 173-189.	0.3	250
52	Adaptive fuzzy systems for target tracking. Intelligent Systems Engineering, 1992, 1, 3.	0.5	35
53	FUZZINESS VS. PROBABILITY. International Journal of General Systems, 1990, 17, 211-240.	1.2	378
54	Hidden patterns in combined and adaptive knowledge networks. International Journal of Approximate Reasoning, 1988, 2, 377-393.	1.9	230

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55	Fuzzy knowledge combination. International Journal of Intelligent Systems, 1986, 1, 293-320.	3.3	80
56	Fuzzy cognitive maps. International Journal of Man-Machine Studies, 1986, 24, 65-75.	0.7	2,616