

Nathan Intrator

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

3,132
citations

172457

29
h-index

168389

53
g-index

77
all docs

77
docs citations

77
times ranked

3584
citing authors

#	ARTICLE	IF	CITATIONS
1	Free water elimination and mapping from diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 717-730.	3.0	754
2	Objective function formulation of the BCM theory of visual cortical plasticity: Statistical connections, stability conditions. <i>Neural Networks</i> , 1992, 5, 3-17.	5.9	260
3	Fundamentals of Artificial Neural Networks. <i>Computers in Physics</i> , 1996, 10, 137-137.	0.5	163
4	Bootstrapping with Noise: An Effective Regularization Technique. <i>Connection Science</i> , 1996, 8, 355-372.	3.0	132
5	Offline cursive script word recognition ? a survey. <i>International Journal on Document Analysis and Recognition</i> , 1999, 2, 90-110.	3.4	103
6	Feature Extraction Using an Unsupervised Neural Network. <i>Neural Computation</i> , 1992, 4, 98-107.	2.2	82
7	Limbic Activity Modulation Guided by Functional Magnetic Resonance Imagingâ€“Inspired Electroencephalography Improves Implicit Emotion Regulation. <i>Biological Psychiatry</i> , 2016, 80, 490-496.	1.3	82
8	Electrical fingerprint of the amygdala guides neurofeedback training for stress resilience. <i>Nature Human Behaviour</i> , 2019, 3, 63-73.	12.0	82
9	Towards structural systematicity in distributed, statically bound visual representations. <i>Cognitive Science</i> , 2003, 27, 73-109.	1.7	70
10	Schizophrenia Detection and Classification by Advanced Analysis of EEG Recordings Using a Single Electrode Approach. <i>PLoS ONE</i> , 2015, 10, e0123033.	2.5	66
11	Boosting Regression Estimators. <i>Neural Computation</i> , 1999, 11, 499-520.	2.2	65
12	Learning low-dimensional representations via the usage of multiple-class labels. <i>Network: Computation in Neural Systems</i> , 1997, 8, 259-281.	3.6	60
13	An EEG Finger-Print of fMRI deep regional activation. <i>NeuroImage</i> , 2014, 102, 128-141.	4.2	59
14	Optimal ensemble averaging of neural networks. <i>Network: Computation in Neural Systems</i> , 1997, 8, 283-296.	3.6	59
15	Face recognition using a hybrid supervised/unsupervised neural network. <i>Pattern Recognition Letters</i> , 1996, 17, 67-76.	4.2	58
16	(Coarse coding of shape fragments) + (Retinotopy) â€” Representation of structure. <i>Spatial Vision</i> , 2000, 13, 255-264.	1.4	58
17	Combining Exploratory Projection Pursuit and Projection Pursuit Regression with Application to Neural Networks. <i>Neural Computation</i> , 1993, 5, 443-455.	2.2	51
18	Three-Dimensional Object Recognition Using an Unsupervised BCM Network: The Usefulness of Distinguishing Features. <i>Neural Computation</i> , 1993, 5, 61-74.	2.2	49

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19	Cluster analysis and classification of heart sounds. Biomedical Signal Processing and Control, 2009, 4, 26-36.	5.7	49
20	Machine learning fMRI classifier delineates subgroups of schizophrenia patients. Schizophrenia Research, 2014, 160, 196-200.	2.0	46
21	Functional Cliques in the Amygdala and Related Brain Networks Driven by Fear Assessment Acquired During Movie Viewing. Brain Connectivity, 2011, 1, 484-495.	1.7	45
22	Delay accuracy in bat sonar is related to the reciprocal of normalized echo bandwidth, or Q. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 3638-3643.	7.1	42
23	Volitional limbic neuromodulation exerts a beneficial clinical effect on Fibromyalgia. NeuroImage, 2019, 186, 758-770.	4.2	42
24	Variational multiple-tensor fitting of fiber-ambiguous diffusion-weighted magnetic resonance imaging voxels. Magnetic Resonance Imaging, 2008, 26, 1133-1144.	1.8	41
25	Striking of underwater prey by a reef heron, <i>Egretta gularis schistacea</i> . Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1987, 160, 517-523.	1.6	40
26	The dark side of the alpha rhythm: <sc>fMRI</sc> evidence for induced alpha modulation during complete darkness. European Journal of Neuroscience, 2013, 37, 795-803.	2.6	39
27	Learning as Extraction of Low-Dimensional Representations. Psychology of Learning and Motivation - Advances in Research and Theory, 1997, 36, 353-380.	1.1	36
28	One-Class FMRI-Inspired EEG Model for Self-Regulation Training. PLoS ONE, 2016, 11, e0154968.	2.5	35
29	Monitoring Cardiac Stress Using Features Extracted From S1 Heart Sounds. IEEE Transactions on Biomedical Engineering, 2015, 62, 1169-1178.	4.2	34
30	Evaluation of an auditory model for echo delay accuracy in wideband biosonar. Journal of the Acoustical Society of America, 2003, 114, 1648-1659.	1.1	32
31	A Real-Time Kinect Signature-Based Patient Home Monitoring System. Sensors, 2016, 16, 1965.	3.8	32
32	Effect of Binocular Cortical Misalignment on Ocular Dominance and Orientation Selectivity. Neural Computation, 1996, 8, 1021-1040.	2.2	31
33	Offline Loop Investigation for Handwriting Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 193-209.	13.9	29
34	Respiratory modulation of heart sound morphology. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H796-H805.	3.2	28
35	Time-frequency model for echo-delay resolution in wideband biosonar. Journal of the Acoustical Society of America, 2003, 113, 2137-2145.	1.1	27
36	Neural dynamics necessary and sufficient for transition into pre-sleep induced by EEG NeuroFeedback. NeuroImage, 2014, 97, 19-28.	4.2	21

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37	Automatic model selection in a hybrid perceptron/radial network. Information Fusion, 2002, 3, 259-266.	19.1	18
38	Making a Low-dimensional Representation Suitable for Diverse Tasks. Connection Science, 1996, 8, 205-224.	3.0	17
39	Stationary underwater prey missed by reef herons, Egretta gularis: head position and light refraction at the moment of strike. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1989, 165, 573-576.	1.6	16
40	Systems biology and brain activity in neuronal pathways by smart device and advanced signal processing. Frontiers in Genetics, 2014, 5, 253.	2.3	13
41	Connectivity maps based analysis of EEG for the advanced diagnosis of schizophrenia attributes. PLoS ONE, 2017, 12, e0185852.	2.5	13
42	Postural control in karate practitioners: Does practice make perfect?. Gait and Posture, 2020, 77, 218-224.	1.4	12
43	Multiple ping sonar accuracy improvement using robust motion estimation and ping fusion. Journal of the Acoustical Society of America, 2006, 119, 2106-2113.	1.1	11
44	A Study of Ensemble of Hybrid Networks with Strong Regularization. Lecture Notes in Computer Science, 2003, , 227-235.	1.3	11
45	Discovery of multiple level heart-sound morphological variability resulting from changes in physiological states. Biomedical Signal Processing and Control, 2012, 7, 315-324.	5.7	9
46	Categorized EEG Neurofeedback Performance Unveils Simultaneous fMRI Deep Brain Activation. Lecture Notes in Computer Science, 2012, , 108-115.	1.3	8
47	Unsupervised Learning of Visual Structure. Lecture Notes in Computer Science, 2002, , 629-642.	1.3	8
48	<title>Feature extraction from acoustic backscattered signals using wavelet dictionaries</title>. , 1997, 3079, 183.		7
49	An integration of online and pseudo-online information for cursive word recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 669-683.	13.9	7
50	Inferring Functional Brain States Using Temporal Evolution of Regularized Classifiers. Computational Intelligence and Neuroscience, 2007, 2007, 1-8.	1.7	7
51	MAP fusion method for superresolution of images with locally varying pixel quality. International Journal of Imaging Systems and Technology, 2008, 18, 242-250.	4.1	6
52	SNR-dependent filtering for Time Of Arrival estimation in high noise. , 2010, , .		6
53	Using unsupervised incremental learning to cope with gradual concept drift. Connection Science, 2011, 23, 65-83.	3.0	6
54	Making a Low-Dimensional Representation Suitable for Diverse Tasks. , 1996, , 135-157.		6

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55	ON DIFFERENT MODEL SELECTION CRITERIA IN A FORWARD AND BACKWARD REGRESSION HYBRID NETWORK. International Journal of Pattern Recognition and Artificial Intelligence, 2004, 18, 847-865.	1.2	5
56	Identification of a T cell gene expression clock obtained by exploiting a MZ twin design. Scientific Reports, 2017, 7, 6005.	3.3	5
57	Semi-coherent time of arrival estimation using regression. Journal of the Acoustical Society of America, 2012, 132, 832-837.	1.1	4
58	Robust modeling based on optimized EEG bands for functional brain state inference. Journal of Neuroscience Methods, 2012, 203, 377-385.	2.5	4
59	Time-of-Flight Estimation in the Presence of Outliers. Part II"Multiple Echo Processing. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3843-3850.	6.3	4
60	Time-of-Flight Estimation in the Presence of Outliers Part I"Single Echo Processing. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3382-3392.	6.3	4
61	Learning low-dimensional representations via the usage of multiple-class labels. Network: Computation in Neural Systems, 1997, 8, 259-281.	3.6	4
62	On the combination of supervised and unsupervised learning. Physica A: Statistical Mechanics and Its Applications, 1993, 200, 655-661.	2.6	2
63	Competitive learning in biological and artificial neural computation. Trends in Cognitive Sciences, 1997, 1, 268-272.	7.8	2
64	Better limited systematicity in hand than structural descriptions in the bush: A reply to Hummel. Cognitive Science, 2003, 27, 331-332.	1.7	2
65	Rapid Object Category Adaptation during Unlabelled Classification. Perception, 2010, 39, 1230-1239.	1.2	2
66	The Use of Pneumoperitoneum During Laparoscopic Surgery as a Model to Study Pathophysiologic Phenomena: The Correlation of Cardiac Functionality with Computerized Acoustic Indices" Preliminary Data. Journal of Laparoendoscopic and Advanced Surgical Techniques - Part A, 2012, 22, 349-354.	1.0	2
67	Novel Single-Channel EEG Features Correlate with Working Memory Load. , 2021, , .		2
68	Single-Channel EEG Features Reveal an Association With Cognitive Decline in Seniors Performing Auditory Cognitive Assessment. Frontiers in Aging Neuroscience, 0, 14, .	3.4	2
69	Large Ensemble Averaging. Lecture Notes in Computer Science, 1998, , 133-139.	1.3	1
70	Energy-Efficient Time-of-Flight Estimation in the Presence of Outliers: A Machine Learning Approach. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1306-1313.	4.9	1
71	Towards a real time kinect signature based human activity assessment at home. , 2015, , .		1
72	Robust Inference in Bayesian Networks with Application to Gene Expression Temporal Data. Lecture Notes in Computer Science, 2007, , 479-489.	1.3	1

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73	An integrated approach to the study of object features in visual recognition. <i>Network: Computation in Neural Systems</i> , 1995, 6, 603-618.	3.6	0
74	Representation of similarities and correspondence structure. <i>Behavioral and Brain Sciences</i> , 1998, 21, 475-475.	0.7	0
75	Improving classification of neural networks by reducing lens aperture. , 2002, , .		0
76	EEG reactivity changes captured via mobile BCI device following tDCS intervention â€“ a pilot-study in disorders of consciousness (DOC) patients. , 2022, , .		0