

Vincent Gripon

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

882
citations

687363

13
h-index

610901

24
g-index

74
all docs

74
docs citations

74
times ranked

534
citing authors

#	ARTICLE	IF	CITATIONS
1	Sparse Neural Networks With Large Learning Diversity. IEEE Transactions on Neural Networks, 2011, 22, 1087-1096.	4.2	110
2	Characterization and Inference of Graph Diffusion Processes From Observations of Stationary Signals. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 481-496.	2.8	83
3	Quantization and Deployment of Deep Neural Networks on Microcontrollers. Sensors, 2021, 21, 2984.	3.8	64
4	Leveraging the Feature Distribution in Transfer-Based Few-Shot Learning. Lecture Notes in Computer Science, 2021, , 487-499.	1.3	55
5	Evaluating graph signal processing for neuroimaging through classification and dimensionality reduction. , 2017, , .		35
6	SimiNet: A Novel Method for Quantifying Brain Network Similarity. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2238-2249.	13.9	33
7	A Nonvolatile Associative Memory-Based Context-Driven Search Engine Using 90 nm CMOS/MTJ-Hybrid Logic-in-Memory Architecture. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2014, 4, 460-474.	3.6	30
8	Storing Sparse Messages in Networks of Neural Cliques. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 980-989.	11.3	24
9	Nearly-optimal associative memories based on distributed constant weight codes. , 2012, , .		23
10	Architecture and implementation of an associative memory using sparse clustered networks. , 2012, , .		21
11	Algorithm and Architecture for a Low-Power Content-Addressable Memory Based on Sparse Clustered Networks. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2015, 23, 642-653.	3.1	21
12	A simple and efficient way to store many messages using neural cliques. , 2011, , .		20
13	Storing Sequences in Binary Tournament-Based Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 913-925.	11.3	20
14	Memory Vectors for Similarity Search in High-Dimensional Spaces. IEEE Transactions on Big Data, 2018, 4, 65-77.	6.1	20
15	Easy Ensemble Augmented-Shot-Y-Shaped Learning: State-of-the-Art Few-Shot Classification with Simple Components. Journal of Imaging, 2022, 8, 179.	3.0	20
16	A low-power Content-Addressable Memory based on clustered-sparse networks. , 2013, , .		17
17	Reduced-complexity binary-weight-coded associative memories. , 2013, , .		16
18	Squeezing Backbone Feature Distributions to the Max for Efficient Few-Shot Learning. Algorithms, 2022, 15, 147.	2.1	15

#	ARTICLE	IF	CITATIONS
19	Toward an uncertainty principle for weighted graphs. , 2015, , .		14
20	Deep Geometric Knowledge Distillation with Graphs. , 2020, , .		14
21	Reconstructing a graph from path traces. , 2013, , .		13
22	A Biologically Inspired Framework for Visual Information Processing and an Application on Modeling Bottom-Up Visual Attention. Cognitive Computation, 2016, 8, 1007-1026.	5.2	13
23	Coded Hopfield networks. , 2010, , .		12
24	Gradients of connectivity as graph Fourier bases of brain activity. Network Neuroscience, 2021, 5, 322-336.	2.6	11
25	Compression of Deep Neural Networks on the Fly. Lecture Notes in Computer Science, 2016, , 153-160.	1.3	11
26	Compressing multisets using tries. , 2012, , .		10
27	Towards a spectral characterization of signals supported on small-world networks. , 2014, , .		10
28	An Inside Look at Deep Neural Networks Using Graph Signal Processing. , 2018, , .		10
29	Qualitative Concurrent Stochastic Games with Imperfect Information. Lecture Notes in Computer Science, 2009, , 200-211.	1.3	9
30	Rethinking Weight Decay for Efficient Neural Network Pruning. Journal of Imaging, 2022, 8, 64.	3.0	9
31	A GPU-based associative memory using sparse Neural Networks. , 2014, , .		8
32	A Comparative Study of Sparse Associative Memories. Journal of Statistical Physics, 2016, 164, 105-129.	1.2	8
33	Algorithm and Architecture of Fully-Parallel Associative Memories Based on Sparse Clustered Networks. Journal of Signal Processing Systems, 2014, 76, 235-247.	2.1	6
34	A model of bottom-up visual attention using cortical magnification. , 2015, , .		6
35	Graph reconstruction from the observation of diffused signals. , 2015, , .		6
36	Algorithm and implementation of an associative memory for oriented edge detection using improved clustered neural networks. , 2015, , .		6

#	ARTICLE	IF	CITATIONS
37	Twin Neurons for Efficient Real-World Data Distribution in Networks of Neural Cliques: Applications in Power Management in Electronic Circuits. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 375-387.	11.3	6
38	Transfer Incremental Learning Using Data Augmentation. Applied Sciences (Switzerland), 2018, 8, 2512.	2.5	6
39	Laplacian networks: bounding indicator function smoothness for neural networks robustness. APSIPA Transactions on Signal and Information Processing, 2021, 10, .	3.3	6
40	Associative Memories to Accelerate Approximate Nearest Neighbor Search. Applied Sciences (Switzerland), 2018, 8, 1676.	2.5	5
41	Information, noise, coding, modulation: What about the brain?. , 2014, , .		4
42	Nearest Neighbour Search using binary neural networks. , 2016, , .		4
43	Neighborhood-preserving translations on graphs. , 2016, , .		4
44	Learning local receptive fields and their weight sharing scheme on graphs. , 2017, , .		4
45	Budget Restricted Incremental Learning with Pre-Trained Convolutional Neural Networks and Binary Associative Memories. Journal of Signal Processing Systems, 2019, 91, 1063-1073.	2.1	4
46	Representing Deep Neural Networks Latent Space Geometries with Graphs. Algorithms, 2021, 14, 39.	2.1	4
47	Maximum likelihood associative memories. , 2013, , .		3
48	Algorithm and architecture for a multiple-field context-driven search engine using fully-parallel clustered associative memories. , 2014, , .		3
49	Fault-Tolerant Associative Memories Based on $\langle \text{formula } \text{formulatyp}=\text{"inline"} \rangle \langle \text{tex} \text{Notation}=\text{"TeX"} \rangle \langle \text{tex} \rangle \langle \text{formula} \rangle$ -Partite Graphs. IEEE Transactions on Signal Processing, 2016, 64, 829-841.	5.3	3
50	Restricted Clustered Neural Network for Storing Real Data. , 2015, , .		2
51	Towards a characterization of the uncertainty curve for graphs. , 2016, , .		2
52	Incremental learning on chip. , 2017, , .		2
53	Attention Based Pruning for Shift Networks. , 2021, , .		2
54	Random clique codes. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
55	Sparse structured associative memories as efficient set-membership data structures. , 2013, , .		1
56	Cluster-based associative memories built from unreliable storage. , 2014, , .		1
57	SimNet: A new algorithm for measuring brain networks similarity. , 2015, , .		1
58	Associative Memory based on clustered Neural Networks: Improved model and architecture for Oriented Edge Detection. , 2016, , .		1
59	Massively parallel implementation of sparse message retrieval algorithms in Clustered Clique Networks. , 2016, , .		1
60	A Neural Network Model for Solving the Feature Correspondence Problem. Lecture Notes in Computer Science, 2016, , 439-446.	1.3	1
61	Tropical graph signal processing. , 2017, , .		1
62	Improving Accuracy of Nonparametric Transfer Learning Via Vector Segmentation. , 2018, , .		1
63	Improved Visual Localization via Graph Filtering. Journal of Imaging, 2021, 7, 20.	3.0	1
64	Matching Convolutional Neural Networks without Priors about Data. , 2018, , .		1
65	Sparse binary matrices as efficient associative memories. , 2014, , .		0
66	Distributed coding and synaptic pruning. , 2016, , .		0
67	A turbo-inspired iterative approach for correspondence problems of image features. , 2016, , .		0
68	Assembly output codes for learning neural networks. , 2016, , .		0
69	Graph-Projected Signal Processing. , 2018, , .		0
70	Predicting the Generalization Ability of a Few-Shot Classifier. Information (Switzerland), 2021, 12, 29.	2.9	0
71	Transfer Learning with Sparse Associative Memories. Lecture Notes in Computer Science, 2019, , 497-512.	1.3	0
72	Comparing linear structure-based and data-driven latent spatial representations for sequence prediction. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
73	Inferring Graph Signal Translations as Invariant Transformations for Classification Tasks. , 2021, , .		0