Vincent Gripon

List of Publications by Year
in descending order

73	882	687363	610901
73 papers	**882** citations	**13** h-index	**24** g-index
74 all docs	**74** docs citations	**74** times ranked	**534** citing authors

#	Article	IF	Citations
1	Rethinking Weight Decay for Efficient Neural Network Pruning. Journal of Imaging, 2022, 8, 64.	3.0	9
2	Squeezing Backbone Feature Distributions to the Max for Efficient Few-Shot Learning. Algorithms, 2022, 15, 147.	2.1	15
3	Easyâ€"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
4	Laplacian networks: bounding indicator function smoothness for neural networks robustness. APSIPA Transactions on Signal and Information Processing, 2021, 10, .	3.3	6
5	Gradients of connectivity as graph Fourier bases of brain activity. Network Neuroscience, 2021, 5, 322-336.	2.6	11
6	Attention Based Pruning for Shift Networks. , 2021, , .		2
7	Predicting the Generalization Ability of a Few-Shot Classifier. Information (Switzerland), 2021, 12, 29.	2.9	0
8	Quantization and Deployment of Deep Neural Networks on Microcontrollers. Sensors, 2021, 21, 2984.	3.8	64
9	Improved Visual Localization via Graph Filtering. Journal of Imaging, 2021, 7, 20.	3.0	1
10	Leveraging the Feature Distribution inÂTransfer-Based Few-Shot Learning. Lecture Notes in Computer Science, 2021, , 487-499.	1.3	55
11	Representing Deep Neural Networks Latent Space Geometries with Graphs. Algorithms, 2021, 14, 39.	2.1	4
12	Inferring Graph Signal Translations as Invariant Transformations for Classification Tasks. , 2021, , .		0
13	Deep Geometric Knowledge Distillation with Graphs. , 2020, , .		14
14	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
15	Transfer Learning with Sparse Associative Memories. Lecture Notes in Computer Science, 2019, , 497-512.	1.3	0
16	Comparing linear structure-based and data-driven latent spatial representations for sequence prediction. , 2019, , .		0
17	Memory Vectors for Similarity Search in High-Dimensional Spaces. IEEE Transactions on Big Data, 2018, 4, 65-77.	6.1	20
18	SimiNet: A Novel Method for Quantifying Brain Network Similarity. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2238-2249.	13.9	33

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19	Associative Memories to Accelerate Approximate Nearest Neighbor Search. Applied Sciences (Switzerland), 2018, 8, 1676.	2.5	5
20	Graph-Projected Signal Processing. , 2018, , .		0
21	Improving Accuracy of Nonparametric Transfer Learning Via Vector Segmentation. , 2018, , .		1
22	Transfer Incremental Learning Using Data Augmentation. Applied Sciences (Switzerland), 2018, 8, 2512.	2.5	6
23	An Inside Look at Deep Neural Networks Using Graph Signal Processing. , 2018, , .		10
24	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
25	Matching Convolutional Neural Networks without Priors about Data. , 2018, , .		1
26	Incremental learning on chip. , 2017, , .		2
27	Tropical graph signal processing. , 2017, , .		1
28	Evaluating graph signal processing for neuroimaging through classification and dimensionality reduction. , 2017, , .		35
29	Learning local receptive fields and their weight sharing scheme on graphs. , 2017, , .		4
30	Associative Memory based on clustered Neural Networks: Improved model and architecture for Oriented Edge Detection. , 2016, , .		1
31	Towards a characterization of the uncertainty curve for graphs. , 2016, , .		2
32	Distributed coding and synaptic pruning. , 2016, , .		0
33	Massively parallel implementation of sparse message retrieval algorithms in Clustered Clique Networks. , 2016, , .		1
34	A Neural Network Model for Solving the Feature Correspondence Problem. Lecture Notes in Computer Science, 2016, , 439-446.	1.3	1
35	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
36	A turbo-inspired iterative approach for correspondence problems of image features. , 2016, , .		0

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37	Nearest Neighbour Search using binary neural networks. , 2016, , .		4
38	Assembly output codes for learning neural networks. , 2016, , .		0
39	Neighborhood-preserving translations on graphs. , 2016, , .		4
40	A Comparative Study of Sparse Associative Memories. Journal of Statistical Physics, 2016, 164, 105-129.	1.2	8
41	Fault-Tolerant Associative Memories Based on <formula formulatype="inline"><tex Notation="TeX">c</tex></formula>-Partite Graphs. IEEE Transactions on Signal Processing, 2016, 64, 829-841.	5.3	3
42	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
43	Storing Sequences in Binary Tournament-Based Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 913-925.	11.3	20
44	Compression of Deep Neural Networks on the Fly. Lecture Notes in Computer Science, 2016, , 153-160.	1.3	11
45	A model of bottom-up visual attention using cortical magnification. , 2015, , .		6
46	Graph reconstruction from the observation of diffused signals. , 2015, , .		6
47	Toward an uncertainty principle for weighted graphs. , 2015, , .		14
48	Algorithm and implementation of an associative memory for oriented edge detection using improved clustered neural networks. , 2015, , .		6
49	Restricted Clustered Neural Network for Storing Real Data. , 2015, , .		2
50	SimNet: A new algorithm for measuring brain networks similarity. , 2015, , .		1
51	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
52	Storing Sparse Messages in Networks of Neural Cliques. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 980-989.	11.3	24
53	Towards a spectral characterization of signals supported on small-world networks. , 2014, , .		10
54	Sparse binary matrices as efficient associative memories. , 2014, , .		0

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55	Information, noise, coding, modulation: What about the brain?. , 2014, , .		4
56	Cluster-based associative memories built from unreliable storage. , 2014, , .		1
57	Algorithm and architecture for a multiple-field context-driven search engine using fully-parallel clustered associative memories. , 2014, , .		3
58	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
59	A GPU-based associative memory using sparse Neural Networks. , 2014, , .		8
60	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
61	Maximum likelihood associative memories. , 2013, , .		3
62	Sparse structured associative memories as efficient set-membership data structures. , 2013, , .		1
63	A low-power Content-Addressable Memory based on clustered-sparse networks. , 2013, , .		17
64	Reconstructing a graph from path traces. , 2013, , .		13
65	Reduced-complexity binary-weight-coded associative memories. , 2013, , .		16
66	Architecture and implementation of an associative memory using sparse clustered networks. , 2012, , .		21
67	Compressing multisets using tries. , 2012, , .		10
68	Nearly-optimal associative memories based on distributed constant weight codes. , 2012, , .		23
69	Random clique codes. , 2012, , .		1
70	A simple and efficient way to store many messages using neural cliques. , 2011, , .		20
71	Sparse Neural Networks With Large Learning Diversity. IEEE Transactions on Neural Networks, 2011, 22, 1087-1096.	4.2	110
72	Coded Hopfield networks. , 2010, , .		12

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73	Qualitative Concurrent Stochastic Games with Imperfect Information. Lecture Notes in Computer Science, 2009, , 200-211.	1.3	9