Pascal Frossard

List of Publications by Year
in descending order

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69 papers	7,191 citations	394286 19 h-index	214721 47 g-index
72 all docs	72 docs citations	72 times ranked	4195 citing authors

#	Article	IF	Citations
1	iPoolâ€"Information-Based Pooling in Hierarchical Graph Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5032-5044.	7.2	12
2	Graph Neural Networks With Lifting-Based Adaptive Graph Wavelets. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 63-77.	1.6	3
3	Dynamics of functional network organization through graph mixture learning. NeuroImage, 2022, 252, 119037.	2.1	5
4	Wasserstein-Based Graph Alignment. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 353-363.	1.6	3
5	Annihilation Filter Approach for Estimating Graph Dynamics from Diffusion Processes. , 2022, , .		1
6	node2coords: Graph Representation Learning with Wasserstein Barycenters. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 17-29.	1.6	3
7	Multiscale Representation Learning of Graph Data With Node Affinity. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 30-44.	1.6	2
8	Optimism in the Face of Adversity: Understanding and Improving Deep Learning Through Adversarial Robustness. Proceedings of the IEEE, 2021, 109, 635-659.	16.4	23
9	Multilayer Graph Clustering with Optimized Node Embedding. , 2021, , .		1
10	Figlearn: Filter and Graph Learning Using Optimal Transport. , 2021, , .		0
11	Improving Filling Level Classification with Adversarial Training. , 2021, , .		9
12	Multi-Feature 360 Video Quality Estimation. IEEE Open Journal of Circuits and Systems, 2021, 2, 338-349.	1.4	4
13	Traffic Signal Prediction on Transportation Networks Using Spatio-Temporal Correlations on Graphs. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 648-659.	1.6	1
14	Graph Transform Optimization With Application to Image Compression. IEEE Transactions on Image Processing, 2020, 29, 419-432.	6.0	17
15	Visual Distortions in 360Â° Videos. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 2524-2537.	5.6	44
16	GeoDA: A Geometric Framework for Black-Box Adversarial Attacks. , 2020, , .		41
17	Graph Signal Processing for Machine Learning: A Review and New Perspectives. IEEE Signal Processing Magazine, 2020, 37, 117-127.	4.6	77
18	Toward Robust Sensing for Autonomous Vehicles: An Adversarial Perspective. IEEE Signal Processing Magazine, 2020, 37, 14-23.	4.6	25

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19	OrthoNet: Multilayer Network Data Clustering. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 152-162.	1.6	10
20	Graph Laplacian Mixture Model. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 261-270.	1.6	10
21	Mask Combination of Multi-Layer Graphs for Global Structure Inference. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 394-406.	1.6	3
22	Online Resource Inference in Network Utility Maximization Problems. IEEE Transactions on Network Science and Engineering, 2019, 6, 432-444.	4.1	5
23	Adaptive Streaming in Interactive Multiview Video Systems. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 1130-1144.	5.6	18
24	Graph Signal Representation with Wasserstein Barycenters. , 2019, , .		6
25	On the first JND and break in presence of 360-degree content. , 2019, , .		1
26	Graph-Based Detection of Seams In 360-Degree Images. , 2019, , .		1
27	Learning Graphs From Data: A Signal Representation Perspective. IEEE Signal Processing Magazine, 2019, 36, 44-63.	4.6	248
28	A Geometry-Inspired Decision-Based Attack. , 2019, , .		24
29	Robustness via Curvature Regularization, and Vice Versa. , 2019, , .		76
30	SparseFool: A Few Pixels Make a Big Difference. , 2019, , .		78
31	Global Auto-Regressive Depth Recovery via Iterative Non-Local Filtering. IEEE Transactions on Broadcasting, 2019, 65, 123-137.	2.5	13
32	Graph Signal Processing: Overview, Challenges, and Applications. Proceedings of the IEEE, 2018, 106, 808-828.	16.4	982
33	Optimized Data Representation for Interactive Multiview Navigation. IEEE Transactions on Multimedia, 2018, 20, 1595-1609.	5.2	12
34	QoE-Driven Mobile Edge Caching Placement for Adaptive Video Streaming. IEEE Transactions on Multimedia, 2018, 20, 965-984.	5.2	109
35	Distributed Signal Processing via Chebyshev Polynomial Approximation. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 736-751.	1.6	80
36	Delay-Power-Rate-Distortion Optimization of Video Representations for Dynamic Adaptive Streaming. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 1648-1664.	5.6	10

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37	Analysis of classifiersâ€™ robustness to adversarial perturbations. Machine Learning, 2018, 107, 481-508.	3.4	122
38	Empirical Study of the Topology and Geometry of Deep Networks. , 2018, , .		46
39	Geometric Robustness of Deep Networks: Analysis and Improvement. , 2018, , .		49
40	Graph Heat Mixture Model Learning. , 2018, , .		4
41	ONLINE GRAPH LEARNING FROM SEQUENTIAL DATA. , 2018, , .		22
42	Object Shape Approximation and Contour Adaptive Depth Image Coding for Virtual View Synthesis. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 3437-3451.	5.6	13
43	Analysis of Airborne LiDAR Point Clouds With Spectral Graph Filtering. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1284-1288.	1.4	16
44	Geometry-Consistent Light Field Super-Resolution via Graph-Based Regularization. IEEE Transactions on Image Processing, 2018, 27, 4207-4218.	6.0	80
45	Optimal Representations for Adaptive Streaming in Interactive Multiview Video Systems. IEEE Transactions on Multimedia, 2017, 19, 2775-2787.	5.2	20
46	Wide-Baseline Foreground Object Interpolation Using Silhouette Shape Prior. IEEE Transactions on Image Processing, 2017, 26, 5477-5490.	6.0	2
47	The Robustness of Deep Networks: A Geometrical Perspective. IEEE Signal Processing Magazine, 2017, 34, 50-62.	4.6	139
48	Learning time varying graphs. , 2017, , .		51
49	Universal Adversarial Perturbations. , 2017, , .		1,230
50	Learning Heat Diffusion Graphs. IEEE Transactions on Signal and Information Processing Over Networks, 2017, 3, 484-499.	1.6	93
51	Graph-based light field super-resolution. , 2017, , .		23
52	Price-based Controller for Utility-aware HTTP Adaptive Streaming. IEEE MultiMedia, 2017, , 1-1.	1.5	1
53	DeepFool: A Simple and Accurate Method to Fool Deep Neural Networks. , 2016, , .		2,237
54	Learning Laplacian Matrix in Smooth Graph Signal Representations. IEEE Transactions on Signal Processing, 2016, 64, 6160-6173.	3.2	389

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55	In-Network View Synthesis for Interactive Multiview Video Systems. IEEE Transactions on Multimedia, 2016, 18, 852-864.	5.2	23
56	Reference View Selection in DIBR-Based Multiview Coding. IEEE Transactions on Image Processing, 2016, 25, 1808-1819.	6.0	8
57	Graph-Based Compression of Dynamic 3D Point Cloud Sequences. IEEE Transactions on Image Processing, 2016, 25, 1765-1778.	6.0	192
58	Contour approximation & depth image coding for virtual view synthesis. , 2015, , .		5
59	Optimal layered representation for adaptive interactive multiview video streaming. Journal of Visual Communication and Image Representation, 2015, 33, 255-264.	1.7	9
60	Graph-Based Representation for Multiview Image Geometry. IEEE Transactions on Image Processing, 2015, 24, 1573-1586.	6.0	25
61	Optimized Packet Scheduling in Multiview Video Navigation Systems. IEEE Transactions on Multimedia, 2015, 17, 1604-1616.	5.2	10
62	Manitest: Are classifiers really invariant?. , 2015, , .		38
63	Learning Parametric Dictionaries for Signals on Graphs. IEEE Transactions on Signal Processing, 2014, 62, 3849-3862.	3.2	131
64	Extended Layered Depth Image Representation in Multiview Navigation. IEEE Signal Processing Letters, 2014, 21, 22-25.	2.1	6
65	Navigation Domain Representation For Interactive Multiview Imaging. IEEE Transactions on Image Processing, 2013, 22, 3459-3472.	6.0	11
66	Clustering With Multi-Layer Graphs: A Spectral Perspective. IEEE Transactions on Signal Processing, 2012, 60, 5820-5831.	3.2	97
67	Chebyshev polynomial approximation for distributed signal processing. , 2011, , .		91
68	Distributed Classification of Multiple Observation Sets by Consensus. IEEE Transactions on Signal Processing, 2011, 59, 104-114.	3.2	36
69	A Variational Framework for Structure from Motion inÂOmnidirectional Image Sequences. Journal of Mathematical Imaging and Vision, 2011, 41, 182-193.	0.8	14