

# Graph Signal Processing: Overview, Challenges, and Applications

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Classification with Vertex-Based Graph Convolutional Neural Networks. , 2018, , .		5
2	Detection of False Data Injection Attacks in Power Systems with Graph Fourier Transform. , 2018, , .		26
3	GENERALIZED GRAPH SIGNAL PROCESSING. , 2018, , .		2
4	On The Limits of Finite-Time Distributed Consensus Through Successive Local Linear Operations. , 2018, , .		3
5	Asynchronous Nonlinear Updates on Graphs. , 2018, , .		5
6	SAMPLING AND RECONSTRUCTION OF SIGNALS ON PRODUCT GRAPHS. , 2018, , .		15
7	Cascade and Lifting Structures in the Spectral Domain for Bipartite Graph Filter Banks. , 2018, , .		2
8	GRAPH VARIOGRAM: A NOVEL TOOL TO MEASURE SPATIAL STATIONARITY. , 2018, , .		1
9	Spread and Sparse: Learning Interpretable Transforms for Bandlimited Signals on Directed Graphs. , 2018, , .		0
10	Decentralized clustering for node-variant graph filtering with graph diffusion LMS. , 2018, , .		3
11	LEARNING FLEXIBLE REPRESENTATIONS OF STOCHASTIC PROCESSES ON GRAPHS. , 2018, , .		0
12	Nonlinear Polynomial Graph Filter for Signal Processing With Irregular Structures. IEEE Transactions on Signal Processing, 2018, 66, 6241-6251.	3.2	16
13	Subspace Change-Point Detection: A New Model and Solution. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 1224-1239.	7.3	16
14	Alternating Binary Classifier and Graph Learning from Partial Labels. , 2018, , .		11
15	Spectral Domain Sampling of Graph Signals. IEEE Transactions on Signal Processing, 2018, 66, 3752-3767.	3.2	43
16	Averting Cascading Failures in Networked Infrastructures: Poset-Constrained Graph Algorithms. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 733-748.	7.3	16
17	Shift-Enabled Graphs: Graphs Where Shift-Invariant Filters are Representable as Polynomials of Shift Operations. IEEE Signal Processing Letters, 2018, 25, 1305-1309.	2.1	14
18	Active Sampling for Approximately Bandlimited Graph Signals. , 2019, , .		5

#	ARTICLE	IF	CITATIONS
19	Toward Optimal Rate Allocation to Sampling Sets for Bandlimited Graph Signals. IEEE Signal Processing Letters, 2019, 26, 1364-1368.	2.1	8
20	Fast Graph Fourier Transforms Based on Graph Symmetry and Bipartition. IEEE Transactions on Signal Processing, 2019, 67, 4855-4869.	3.2	22
21	Introducing Graph Smoothness Loss for Training Deep Learning Architectures. , 2019, , .		7
22	Exact Recovery by Semidefinite Programming in the Binary Stochastic Block Model with Partially Revealed Side Information. , 2019, , .		8
23	Estimation of Network Processes via Blind Graph Multi-filter Identification. , 2019, , .		3
24	Robust Graph Signal Sampling. , 2019, , .		3
25	Constrained Sampling: Optimum Reconstruction in Subspace With Minimax Regret Constraint. IEEE Transactions on Signal Processing, 2019, 67, 4218-4230.	3.2	0
26	Blue-Noise Sampling on Graphs. IEEE Transactions on Signal and Information Processing Over Networks, 2019, 5, 554-569.	1.6	21
27	Design of orthogonal graph filter bank with known eigenvalues of Laplacian matrix. IET Signal Processing, 2019, 13, 551-561.	0.9	27
28	Deep Graph Regularized Learning for Binary Classification. , 2019, , .		5
29	Optimization Algorithms for Graph Laplacian Estimation via ADMM and MM. IEEE Transactions on Signal Processing, 2019, 67, 4231-4244.	3.2	22
30	Incorporating Graph Attention and Recurrent Architectures for City-Wide Taxi Demand Prediction. ISPRS International Journal of Geo-Information, 2019, 8, 414.	1.4	26
31	A Graph Signal Processing Approach to Study High Density EEG Signals in Patients with Disorders of Consciousness. , 2019, 2019, 4549-4553.		12
32	Lapped Transforms: A Graph-based Extension. , 2019, , .		1
33	Controllability of Bandlimited Graph Processes Over Random Time Varying Graphs. IEEE Transactions on Signal Processing, 2019, 67, 6440-6454.	3.2	19
34	Understanding the Basis of Graph Signal Processing via an Intuitive Example-Driven Approach [Lecture Notes]. IEEE Signal Processing Magazine, 2019, 36, 133-145.	4.6	53
35	Optimal Sampling for Dynamic Complex Networks With Graph-Bandlimited Initialization. IEEE Access, 2019, 7, 150294-150305.	2.6	6
36	Two-Channel Critically Sampled Graph Filter Banks With Spectral Domain Sampling. IEEE Transactions on Signal Processing, 2019, 67, 1447-1460.	3.2	33

#	ARTICLE	IF	CITATIONS
37	Optimal Sampling Sets in Cographs. , 2019, , .		1
38	Predicting Graph Signals Using Kernel Regression Where the Input Signal is Agnostic to a Graph. IEEE Transactions on Signal and Information Processing Over Networks, 2019, 5, 698-710.	1.6	20
39	Graph-Based Detection of Seams In 360-Degree Images. , 2019, , .		1
40	A Topology-aware Coding Framework for Distributed Graph Processing. , 2019, , .		2
41	Improving Graph Trend Filtering with Non-convex Penalties. , 2019, , .		2
42	Reconstruction-cognizant Graph Sampling Using Gershgorin Disc Alignment. , 2019, , .		8
43	HoloCast: Graph Signal Processing for Graceful Point Cloud Delivery. , 2019, , .		11
44	Low-complexity Graph Sampling With Noise and Signal Reconstruction via Neumann Series. IEEE Transactions on Signal Processing, 2019, 67, 5511-5526.	3.2	27
45	Fourier could be a data scientist: From graph Fourier transform to signal processing on graphs. Comptes Rendus Physique, 2019, 20, 474-488.	0.3	35
46	Graph-Based Compression for Distributed Particle Filters. IEEE Transactions on Signal and Information Processing Over Networks, 2019, 5, 404-417.	1.6	7
47	Computing the Partial Correlation of ICA Models for Non-Gaussian Graph Signal Processing. Entropy, 2019, 21, 22.	1.1	18
48	Graph Learning From Filtered Signals: Graph System and Diffusion Kernel Identification. IEEE Transactions on Signal and Information Processing Over Networks, 2019, 5, 360-374.	1.6	34
49	A New Graph Based Brain Connectivity Measure. Lecture Notes in Computer Science, 2019, , 450-459.	1.0	2
50	Adaptive Label Propagation for Facial Appearance Transfer. IEEE Transactions on Multimedia, 2019, 21, 3068-3082.	5.2	2
51	Sparse Sampling for Inverse Problems With Tensors. IEEE Transactions on Signal Processing, 2019, 67, 3272-3286.	3.2	24
52	Fast Sampling of Graph Signals with Noise via Neumann Series Conversion. , 2019, , .		1
53	Learning Sheaf Laplacians from Smooth Signals. , 2019, , .		5
54	Median Activation Functions for Graph Neural Networks. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
55	Smooth Signal Recovery on Product Graphs. , 2019, , .		2
56	Identifying Structural Brain Networks from Functional Connectivity: A Network Deconvolution Approach. , 2019, , .		5
57	Connecting the Dots: Identifying Network Structure via Graph Signal Processing. IEEE Signal Processing Magazine, 2019, 36, 16-43.	4.6	251
58	Learning Graphs From Data: A Signal Representation Perspective. IEEE Signal Processing Magazine, 2019, 36, 44-63.	4.6	248
59	Interpolation and Denoising of Graph Signals Using Plug-and-play Admm. , 2019, , .		11
60	\$M\$-Channel Critically Sampled Spectral Graph Filter Banks With Symmetric Structure. IEEE Signal Processing Letters, 2019, 26, 665-669.	2.1	5
61	Power Systems Topology and State Estimation by Graph Blind Source Separation. IEEE Transactions on Signal Processing, 2019, 67, 2036-2051.	3.2	41
62	M-Channel Graph Filter Banks: Polyphase Analysis and Structures. IEEE Signal Processing Letters, 2019, 26, 730-734.	2.1	4
63	Finding GEMS: Multi-Scale Dictionaries For High-Dimensional Graph Signals. IEEE Transactions on Signal Processing, 2019, 67, 1889-1901.	3.2	11
64	Guided graph spectral embedding: Application to the <i>C. elegans</i> connectome. Network Neuroscience, 2019, 3, 807-826.	1.4	11
65	Eigendecomposition-Free Sampling Set Selection for Graph Signals. IEEE Transactions on Signal Processing, 2019, 67, 2679-2692.	3.2	62
66	Steerable Fourier number transform with application to image encryption. Signal Processing: Image Communication, 2019, 74, 89-95.	1.8	6
67	3D Point Cloud Super-Resolution via Graph Total Variation on Surface Normals. , 2019, , .		21
68	Passive and Active Sampling for Piecewise-Smooth Graph Signals. , 2019, , .		1
69	Generalized Sampling on Graphs With A Subspace Prior. , 2019, , .		1
70	A non-commutative viewpoint on graph signal processing. , 2019, , .		2
71	Vertex-wise NLMS Algorithm for Signal Reconstruction of DC Power Flow. , 2019, , .		0
72	The Cosine Number Transform: A Graph Signal Processing Approach. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
73	A Graph Signal De-Noiseing Method Using Spanning Tree and Graph Filter Bank. , 2019, , .		0
74	EEG Source Localization: A New Multiway Temporal-Spatial-Spectral Analysis. , 2019, , .		2
75	Piecewise Stationary Modeling of Random Processes Over Graphs With an Application to Traffic Prediction. , 2019, , .		5
76	Design of Graph Filter Using Spectral Transformation and Window Method. , 2019, , .		2
77	Mapping Brain Structural Connectivities to Functional Networks Via Graph Encoder-Decoder With Interpretable Latent Embeddings. , 2019, , .		13
78	Sampling and Reconstruction of Diffusive Fields on Graphs. , 2019, , .		1
79	On Critical Sampling of Time-Vertex Graph Signals. , 2019, , .		3
80	Compression of Hyperspectral Scenes through Integer-to-Integer Spectral Graph Transforms. Remote Sensing, 2019, 11, 2290.	1.8	4
81	GSP Analysis of Brain Imaging Data from Athletes with History of Multiple Concussions. , 2019, , .		2
82	A Graph Fourier Transform Based Method for Missing Temperature Data Detection. , 2019, , .		14
83	Convolutional Graph Neural Networks. , 2019, , .		8
84	Pooling in Graph Convolutional Neural Networks. , 2019, , .		9
85	An Efficient Algorithm for Graph Laplacian Optimization Based on Effective Resistances. , 2019, , .		2
86	Fast Color-guided Depth Denoising for RGB-D Images by Graph Filtering. , 2019, , .		4
87	On the Transferability of Spectral Graph Filters. , 2019, , .		22
88	Distributed Change Detection in Streaming Graph Signals. , 2019, , .		6
89	On Distributed Consensus by a Cascade Of Generalized Graph Filters. , 2019, , .		1
90	Global Optimization of Graph Filters with Multiple Shift Matrices. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
91	HodgeNet: Graph Neural Networks for Edge Data. , 2019, , .		21
92	Providing Spatial Control in Personal Sound Zones Using Graph Signal Processing. , 2019, , .		2
93	Generalizing Graph Convolutional Neural Networks with Edge-Variant Recursions on Graphs. , 2019, , .		5
94	Modeling and Recovery of Graph Signals and Difference-Based Signals. , 2019, , .		13
95	Random Sampling for Bandlimited Signals on Product Graphs. , 2019, , .		2
96	Graph Based Skeleton Modeling for Human Activity Analysis. , 2019, , .		12
97	Kernel Regression for Graph Signal Prediction in Presence of Sparse Noise. , 2019, , .		1
98	Coding of Image Intra Prediction Residuals Using Symmetric Graphs. , 2019, , .		2
99	A Hilbert Space Theory of Generalized Graph Signal Processing. IEEE Transactions on Signal Processing, 2019, 67, 6188-6203.	3.2	14
100	A Graph Signal Processing Approach to Direction of Arrival Estimation. , 2019, , .		11
101	Learning Overlapping Community-Based Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2019, 5, 684-697.	1.6	10
102	A Directed Graph Fourier Transform With Spread Frequency Components. IEEE Transactions on Signal Processing, 2019, 67, 946-960.	3.2	26
104	A Filtering Framework for Time-Varying Graph Signals. Signals and Communication Technology, 2019, , 341-376.	0.4	4
105	Wavelet-Based Visual Data Exploration. Signals and Communication Technology, 2019, , 459-478.	0.4	2
106	An Adaptive Graph Spectral Analysis Method for Feature Extraction of an EEG Signal. IEEE Sensors Journal, 2019, 19, 1884-1896.	2.4	14
107	Spectral Design of Signal-Adapted Tight Frames on Graphs. Signals and Communication Technology, 2019, , 177-206.	0.4	8
108	Normalized LMS algorithm and data-selective strategies for adaptive graph signal estimation. Signal Processing, 2020, 167, 107326.	2.1	31
109	Separating Structure from Noise in Large Graphs Using the Regularity Lemma. Pattern Recognition, 2020, 98, 107070.	5.1	4

#	ARTICLE	IF	CITATIONS
110	A feature extraction model based on discriminative graph signals. <i>Expert Systems With Applications</i> , 2020, 139, 112861.	4.4	10
111	Detection of False Data Injection Attacks in Smart Grids Based on Graph Signal Processing. <i>IEEE Systems Journal</i> , 2020, 14, 1886-1896.	2.9	86
112	A robust 3D point cloud watermarking method based on the graph Fourier transform. <i>Multimedia Tools and Applications</i> , 2020, 79, 1921-1950.	2.6	14
113	Vector-Valued Graph Trend Filtering With Non-Convex Penalties. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2020, 6, 48-62.	1.6	13
114	Blind Community Detection From Low-Rank Excitations of a Graph Filter. <i>IEEE Transactions on Signal Processing</i> , 2020, 68, 436-451.	3.2	27
115	3D Point Cloud Enhancement Using Graph-Modelled Multiview Depth Measurements. , 2020, , .		3
116	Cell-Type-Specific Proteogenomic Signal Diffusion for Integrating Multi-Omics Data Predicts Novel Schizophrenia Risk Genes. <i>Patterns</i> , 2020, 1, 100091.	3.1	5
117	Hypergraph-Based Image Processing. , 2020, , .		6
118	Effective non-intrusive load monitoring of buildings based on a novel multi-descriptor fusion with dimensionality reduction. <i>Applied Energy</i> , 2020, 279, 115872.	5.1	42
119	Learning Over Multitask Graphsâ€™ Part II: Performance Analysis. <i>IEEE Open Journal of Signal Processing</i> , 2020, 1, 46-63.	2.3	3
120	Learning Over Multitask Graphsâ€™ Part I: Stability Analysis. <i>IEEE Open Journal of Signal Processing</i> , 2020, 1, 28-45.	2.3	17
121	Fractional Spectral Graph Wavelets and Their Applications. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-18.	0.6	6
122	Building a Graph Signal Processing Model Using Dynamic Time Warping for Load Disaggregation. <i>Sensors</i> , 2020, 20, 6628.	2.1	8
123	Performing Group Difference Testing on Graph Structured Data From GANs: Analysis and Applications in Neuroimaging. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2022, 44, 877-889.	9.7	2
124	Recursive Prediction of Graph Signals With Incoming Nodes. , 2020, , .		5
125	The Graphon Fourier Transform. , 2020, , .		6
126	Node-Asynchronous Spectral Clustering On Directed Graphs. , 2020, , .		4
127	Graph Vertex Sampling with Arbitrary Graph Signal Hilbert Spaces. , 2020, , .		7



#	ARTICLE	IF	CITATIONS
128	Recovery of Time-Varying Graph Signals via Distributed Algorithms on Regularized Problems. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 540-555.	1.6	13
129	A Particle Gibbs Sampling Approach to Topology Inference in Gene Regulatory Networks. , 2020, , .		1
130	Graph Fourier Transform: A Stable Approximation. IEEE Transactions on Signal Processing, 2020, 68, 4422-4437.	3.2	19
131	Stability of Graph Neural Networks to Relative Perturbations. , 2020, , .		3
132	On Polynomial Approximations of Spectral Windows in Vertex-Frequency Representations. , 2020, , .		1
133	GSP for Virtual Sensors in eHealth Applications. , 2020, , .		1
134	Joint Demosaicking / Rectification Of Fisheye Camera Images Using Multi-Color Graph Laplacian Regularization. , 2020, , .		0
135	Perceptually Inspired Weighted MSE Optimization Using Irregularity-Aware Graph Fourier Transform. , 2020, , .		7
136	Efficient Graph Construction For Image Representation. , 2020, , .		7
137	Sampling and Inference of Networked Dynamics Using Log-Koopman Nonlinear Graph Fourier Transform. IEEE Transactions on Signal Processing, 2020, 68, 6187-6197.	3.2	4
138	Online Topology Inference from Streaming Stationary Graph Signals with Partial Connectivity Information. Algorithms, 2020, 13, 228.	1.2	17
139	Bike Sharing and Urban Mobility in a Post-Pandemic World. IEEE Access, 2020, 8, 187291-187306.	2.6	58
140	New Methods for Control System Signal Sampling in Neural Networks of Power Facilities. IEEE Access, 2020, 8, 192857-192866.	2.6	8
141	Sampling Of 3d Point Cloud Via Gershgorin Disc Alignment. , 2020, , .		4
142	Preconditioned Gradient Descent Algorithm for Inverse Filtering on Spatially Distributed Networks. IEEE Signal Processing Letters, 2020, 27, 1834-1838.	2.1	4
143	On the Minimization of Sobolev Norms of Time-Varying Graph Signals: Estimation of New Coronavirus Disease 2019 Cases. , 2020, , .		9
144	G-Image Segmentation: Similarity-Preserving Fuzzy $C$ -Means With Spatial Information Constraint in Wavelet Space. IEEE Transactions on Fuzzy Systems, 2021, 29, 3887-3898.	6.5	20
145	Graph Signal Processing Approach to QSAR/QSPR Model Learning of Compounds. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, PP, 1-1.	9.7	10

#	ARTICLE	IF	CITATIONS
146	Overhead Reduction in Graph-Based Point Cloud Delivery. , 2020, , .		5
147	Discovering Latent Spatial Invariance of Urban Wireless Data using Compression and Deep Learning. , 2020, , .		0
148	Adaptive Propagation Graph Convolutional Network. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 4755-4760.	7.2	39
149	A New Stability Criterion for IoT Systems in Smart Buildings: Temperature Case Study. Mathematics, 2020, 8, 1412.	1.1	4
150	Extended Adjacency and Scale-Dependent Graph Fourier Transform via Diffusion Distances. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 592-604.	1.6	4
151	Hypergraph Spectral Clustering for Point Cloud Segmentation. IEEE Signal Processing Letters, 2020, 27, 1655-1659.	2.1	13
152	Graph Representation Learning. Synthesis Lectures on Artificial Intelligence and Machine Learning, 2020, 14, 1-159.	0.6	223
153	Unsupervised evaluation of multiple node ranks by reconstructing local structures. Applied Network Science, 2020, 5, .	0.8	1
154	Sampling Signals on Graphs: From Theory to Applications. IEEE Signal Processing Magazine, 2020, 37, 14-30.	4.6	78
155	Graph Signal Processing and Deep Learning: Convolution, Pooling, and Topology. IEEE Signal Processing Magazine, 2020, 37, 139-149.	4.6	34
156	Joint Forecasting and Interpolation of Time-Varying Graph Signals Using Deep Learning. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 761-773.	1.6	8
157	Multiway Graph Signal Processing on Tensors: Integrative Analysis of Irregular Geometries. IEEE Signal Processing Magazine, 2020, 37, 160-173.	4.6	15
158	Automatic short answer grading by encoding student responses via a graph convolutional network. Interactive Learning Environments, 2023, 31, 1636-1650.	4.4	10
159	A User Guide to Low-Pass Graph Signal Processing and Its Applications: Tools and Applications. IEEE Signal Processing Magazine, 2020, 37, 74-85.	4.6	25
160	Graph Signal Processing for Machine Learning: A Review and New Perspectives. IEEE Signal Processing Magazine, 2020, 37, 117-127.	4.6	77
161	Semi-Supervised Background Subtraction Of Unseen Videos: Minimization Of The Total Variation Of Graph Signals. , 2020, , .		19
162	Recent Advances On Ontology Similarity Metrics: A Survey. , 2020, , .		3
163	Topology-Aware Joint Graph Filter and Edge Weight Identification for Network Processes. , 2020, , .		7

#	ARTICLE	IF	CITATIONS
164	Stability Properties of Graph Neural Networks. IEEE Transactions on Signal Processing, 2020, 68, 5680-5695.	3.2	82
165	Population Graph-Based Multi-Model Ensemble Method for Diagnosing Autism Spectrum Disorder. Sensors, 2020, 20, 6001.	2.1	21
166	Vertex-frequency graph signal processing: A comprehensive review. , 2020, 107, 102802.		20
167	One Dimensional Cross-Correlation Methods For Deterministic And Stochastic Graph Signals With A Twitter Application In Julia. , 2020, , .		5
168	Blind Identification of Stochastic Block Models from Dynamical Observations. SIAM Journal on Mathematics of Data Science, 2020, 2, 335-367.	1.0	19
169	Random Walks on Simplicial Complexes and the Normalized Hodge 1-Laplacian. SIAM Review, 2020, 62, 353-391.	4.2	113
170	Sparse Directed Graph Learning for Head Movement Prediction in 360 Video Streaming. , 2020, , .		3
171	TACC: Topology-Aware Coded Computing for Distributed Graph Processing. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 508-525.	1.6	3
172	Graph Sampling for Matrix Completion Using Recurrent Gershgorin Disc Shift. IEEE Transactions on Signal Processing, 2020, 68, 2814-2829.	3.2	8
173	Optimal Power Flow Using Graph Neural Networks. , 2020, , .		57
174	GSDroid: Graph Signal Based Compact Feature Representation for Android Malware Detection. Expert Systems With Applications, 2020, 159, 113581.	4.4	28
175	Network effects govern the evolution of maritime trade. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12719-12728.	3.3	25
176	Characterization of Time Evolving Graph Using State-Space Modelling and its Application in Alzheimer's Disease Detection. , 2020, , .		0
177	Estimating Network Processes via Blind Identification of Multiple Graph Filters. IEEE Transactions on Signal Processing, 2020, , 1-1.	3.2	8
178	On The Choice of Graph Neural Network Architectures. , 2020, , .		5
179	Non-parametric Community Change-points Detection in Streaming Graph Signals. , 2020, , .		4
180	Generalized Graph Spectral Sampling with Stochastic Priors. , 2020, , .		7
181	Graph Construction from Data by Non-Negative Kernel Regression. , 2020, , .		13

#	ARTICLE	IF	CITATIONS
182	Gaussian Processes Over Graphs. , 2020, , .		10
183	Graph Neural Net Using Analytical Graph Filters and Topology Optimization for Image Denoising. , 2020, , .		4
184	Adaptive estimation and sparse sampling for graph signals in alpha-stable noise. , 2020, 105, 102782.		14
185	Deep Learning on Graphs: A Survey. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 249-270.	4.0	552
186	Spectral Graph Based Vertex-Frequency Wiener Filtering for Image and Graph Signal Denoising. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 226-240.	1.6	14
187	Dense Light Field Coding: A Survey. IEEE Access, 2020, 8, 49244-49284.	2.6	49
188	Fast Graph Sampling Set Selection Using Gershgorin Disc Alignment. IEEE Transactions on Signal Processing, 2020, 68, 2419-2434.	3.2	28
189	Feature Graph Learning for 3D Point Cloud Denoising. IEEE Transactions on Signal Processing, 2020, 68, 2841-2856.	3.2	53
190	Multimodal Dynamic Brain Connectivity Analysis Based on Graph Signal Processing for Former Athletes With History of Multiple Concussions. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 284-299.	1.6	13
191	Network Inference From Consensus Dynamics With Unknown Parameters. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 300-315.	1.6	13
192	Topological Signal Processing Over Simplicial Complexes. IEEE Transactions on Signal Processing, 2020, 68, 2992-3007.	3.2	93
193	Toward Tactile Internet in Beyond 5G Era: Recent Advances, Current Issues, and Future Directions. IEEE Access, 2020, 8, 56948-56991.	2.6	114
194	Understanding Graph Isomorphism Network for rs-fMRI Functional Connectivity Analysis. Frontiers in Neuroscience, 2020, 14, 630.	1.4	65
195	Topological IIR Filters Over Simplicial Topologies via Sheaves. IEEE Signal Processing Letters, 2020, 27, 1215-1219.	2.1	6
196	A Joint Markov Model for Communities, Connectivity and Signals Defined Over Graphs. IEEE Signal Processing Letters, 2020, 27, 1160-1164.	2.1	7
197	An Iterative Graph Spectral Subtraction Method for Speech Enhancement. Speech Communication, 2020, 123, 35-42.	1.6	18
198	Efficient Estimation of Graph Signals With Adaptive Sampling. IEEE Transactions on Signal Processing, 2020, 68, 3808-3823.	3.2	7
199	Improved Functional MRI Activation Mapping in White Matter Through Diffusion-Adapted Spatial Filtering. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
200	Geometric Deep Lean Learning: Deep Learning in Industry 4.0 Cyber-Physical Complex Networks. Sensors, 2020, 20, 763.	2.1	17
201	Intelligent acoustic-based fault diagnosis of roller bearings using a deep graph convolutional network. Measurement: Journal of the International Measurement Confederation, 2020, 156, 107585.	2.5	117
202	State-Space Network Topology Identification From Partial Observations. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 211-225.	1.6	24
203	Graph Signal Processing in the Presence of Topology Uncertainties. IEEE Transactions on Signal Processing, 2020, 68, 1558-1573.	3.2	21
204	Differential Beamforming on Graphs. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 901-913.	4.0	16
205	Deep Unsupervised Learning of 3D Point Clouds via Graph Topology Inference and Filtering. IEEE Transactions on Image Processing, 2020, 29, 3183-3198.	6.0	36
206	Introducing Hypergraph Signal Processing: Theoretical Foundation and Practical Applications. IEEE Internet of Things Journal, 2020, 7, 639-660.	5.5	41
207	Online Distributed Learning Over Graphs With Multitask Graph-Filter Models. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 63-77.	1.6	21
208	Super-Resolution of 3D Color Point Clouds Via Fast Graph Total Variation. , 2020, , .		11
209	Stochastic Graph Neural Networks. , 2020, , .		6
210	Reconstruction of bandlimited graph signals from measurements. , 2020, 101, 102728.		9
211	Fast Incremental Spectral Clustering in Titanate Application via Graph Fourier Transform. IEEE Access, 2020, 8, 57252-57259.	2.6	1
212	Graph Wavelet-Based Multilevel Graph Coarsening and Its Application in Graph-CNN for Alzheimer's Disease Detection. IEEE Access, 2020, 8, 60906-60917.	2.6	7
213	Generalized Sampling on Graphs With Subspace and Smoothness Priors. IEEE Transactions on Signal Processing, 2020, 68, 2272-2286.	3.2	23
214	Graph Laplacian Mixture Model. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 261-270.	1.6	10
215	Cluster-Based Vibration Analysis of Structures With GSP. IEEE Transactions on Industrial Electronics, 2021, 68, 3465-3474.	5.2	11
216	Discovering sentiment potential in Twitter conversations with Hilbert-Huang spectrum. Evolving Systems, 2021, 12, 3-17.	2.4	6
217	Malfunction Detection and Localization Algorithm for Wireless Sensor Network. Circuits, Systems, and Signal Processing, 2021, 40, 501-509.	1.2	0

#	ARTICLE	IF	CITATIONS
218	Time-Varying Graph Signal Denoising via Median Filters. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1053-1057.	2.2	16
219	QR factorization-based sampling set selection for bandlimited graph signals. Signal Processing, 2021, 179, 107847.	2.1	4
220	Joint estimation of low-rank components and connectivity graph in high-dimensional graph signals: Application to brain imaging. Signal Processing, 2021, 182, 107931.	2.1	1
221	Three-dimensional steerable discrete cosine transform with application to 3D image compression. Multidimensional Systems and Signal Processing, 2021, 32, 491-519.	1.7	2
222	High performance GPU primitives for graph-tensor learning operations. Journal of Parallel and Distributed Computing, 2021, 148, 125-137.	2.7	2
223	Learning Common Harmonic Waves on Stiefel Manifold "A New Mathematical Approach for Brain Network Analyses. IEEE Transactions on Medical Imaging, 2021, 40, 419-430.	5.4	14
224	Correlation Guided Graph Learning to Estimate Functional Connectivity Patterns From fMRI Data. IEEE Transactions on Biomedical Engineering, 2021, 68, 1154-1165.	2.5	5
225	A Graph-Based Approach for Missing Sensor Data Imputation. IEEE Sensors Journal, 2021, 21, 23133-23144.	2.4	11
226	Joint Topology Learning and Graph Signal Recovery Using Variational Bayes in Non-Gaussian Noise. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1887-1891.	2.2	2
227	Graph Diffusion Wasserstein Distances. Lecture Notes in Computer Science, 2021, , 577-592.	1.0	3
228	Hypergraph Spectral Analysis and Processing in 3D Point Cloud. IEEE Transactions on Image Processing, 2021, 30, 1193-1206.	6.0	19
229	Mining Graph-Fourier Transform Time Series for Anomaly Detection of Internet Traffic at Core and Metro Networks. IEEE Access, 2021, 9, 8997-9011.	2.6	7
230	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
231	Node-Adaptive Regularization for Graph Signal Reconstruction. IEEE Open Journal of Signal Processing, 2021, 2, 85-98.	2.3	1
232	Graph Signal Processing: Vertex Multiplication. IEEE Signal Processing Letters, 2021, 28, 1270-1274.	2.1	2
233	Discrete Signal Processing with Set Functions. IEEE Transactions on Signal Processing, 2021, 69, 1039-1053.	3.2	8
234	Distributed Nonlinear Polynomial Graph Filter and Its Output Graph Spectrum: Filter Analysis and Design. IEEE Transactions on Signal Processing, 2021, 69, 1725-1739.	3.2	13
235	Graph Tikhonov Regularization and Interpolation Via Random Spanning Forests. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 359-374.	1.6	3

#	ARTICLE	IF	CITATIONS
236	Learning Low-Rank Graph With Enhanced Supervision. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 2501-2506.	5.6	5
237	Graph neural fields: A framework for spatiotemporal dynamical models on the human connectome. PLoS Computational Biology, 2021, 17, e1008310.	1.5	14
238	Functions of the Laplacian Matrix With Application to Distributed Formation Control. IEEE Transactions on Control of Network Systems, 2022, 9, 1459-1467.	2.4	2
239	Adaptive Graph Filters in Reproducing Kernel Hilbert Spaces: Design and Performance Analysis. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 62-74.	1.6	13
240	Gradients of connectivity as graph Fourier bases of brain activity. Network Neuroscience, 2021, 5, 322-336.	1.4	11
241	Dynamic K-Graphs: an Algorithm for Dynamic Graph Learning and Temporal Graph Signal Clustering. , 2021, , .		3
242	A Cascaded Structure for Generalized Graph Filters. IEEE Transactions on Signal Processing, 2022, 70, 3499-3513.	3.2	1
243	High Performance Graph Data Imputation on Multiple GPUs. Future Internet, 2021, 13, 36.	2.4	0
244	Stochastic Graph Neural Networks. IEEE Transactions on Signal Processing, 2021, 69, 4428-4443.	3.2	12
245	Applying Fairness Constraints on Graph Node Ranks Under Personalization Bias. Studies in Computational Intelligence, 2021, , 610-622.	0.7	2
246	Graph Signal Processing for Geometric Data and Beyond: Theory and Applications. IEEE Transactions on Multimedia, 2022, 24, 3961-3977.	5.2	24
247	HoloCast+: Hybrid Digital-Analog Transmission for Graceful Point Cloud Delivery With Graph Fourier Transform. IEEE Transactions on Multimedia, 2022, 24, 2179-2191.	5.2	9
248	Non-Bayesian Estimation Framework for Signal Recovery on Graphs. IEEE Transactions on Signal Processing, 2021, 69, 1169-1184.	3.2	7
249	Machine learning methods for power line outage identification. Electricity Journal, 2021, 34, 106885.	1.3	6
250	Minimum-Degree Distributed Graph Filter Design. IEEE Transactions on Signal Processing, 2021, 69, 1083-1096.	3.2	3
251	A Graph Convolutional Network With Multiple Dependency Representations for Relation Extraction. IEEE Access, 2021, 9, 81575-81587.	2.6	9
252	Graph Unrolling Networks: Interpretable Neural Networks for Graph Signal Denoising. IEEE Transactions on Signal Processing, 2021, 69, 3699-3713.	3.2	31
253	Graph Convolutional Neural Networks for Power Line Outage Identification. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
254	Algebraic Neural Networks: Stability to Deformations. IEEE Transactions on Signal Processing, 2021, 69, 3351-3366.	3.2	10
255	Scalable Quickest Line Outage Detection and Localization Via Graph Spectral Analysis. IEEE Transactions on Power Systems, 2022, 37, 590-602.	4.6	6
256	Hyperspectral Image Denoising Using Adaptive Weight Graph Total Variation Regularization and Low-Rank Matrix Recovery. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	8
257	Guided Intra-Patch Smoothing Graph Filtering for Single-Image Denoising. Computers, Materials and Continua, 2021, 69, 67-80.	1.5	2
258	Graph-Based Bayesian Optimization for Large-Scale Objective-Based Experimental Design. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5913-5925.	7.2	15
259	Distributed Adaptive Multi-Task Learning Based on Partially Observed Graph Signals. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 522-538.	1.6	1
260	SuperGraph: Spatial-Temporal Graph-Based Feature Extraction for Rotating Machinery Diagnosis. IEEE Transactions on Industrial Electronics, 2022, 69, 4167-4176.	5.2	82
261	A Computer-Based Method to Determine Predictive Potential of Distance-Spectral Descriptors for Measuring the $\pi$ -Electronic Energy of Benzenoid Hydrocarbons With Applications. IEEE Access, 2021, 9, 19238-19253.	2.6	24
262	Dynamic Point Cloud Inpainting via Spatial-Temporal Graph Learning. IEEE Transactions on Multimedia, 2021, 23, 3022-3034.	5.2	7
263	Signed Graph Metric Learning via Gershgorin Disc Perfect Alignment. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 7219-7234.	9.7	11
264	Learning Event Representations for Temporal Segmentation of Image Sequences by Dynamic Graph Embedding. IEEE Transactions on Image Processing, 2021, 30, 1476-1486.	6.0	4
265	State-Space Based Network Topology Identification. , 2021, , .		3
266	Matrix Completion Using Graph Total Variation Based on Directed Laplacian Matrix. Circuits, Systems, and Signal Processing, 2021, 40, 3099-3106.	1.2	0
267	Graph signal active contours. , 2021, , .		0
268	Revisiting Graph Neural Networks: Graph Filtering Perspective. , 2021, , .		3
269	Edge Sensing and Control Co-Design for Industrial Cyber-Physical Systems: Observability Guaranteed Method. IEEE Transactions on Cybernetics, 2022, 52, 13350-13362.	6.2	3
270	iPoolâ€”Information-Based Pooling in Hierarchical Graph Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5032-5044.	7.2	12
271	Optimal Fractional Fourier Filtering for Graph Signals. IEEE Transactions on Signal Processing, 2021, 69, 2902-2912.	3.2	10



#	ARTICLE	IF	CITATIONS
272	The Emerging Field of Graph Signal Processing for Moving Object Segmentation. Communications in Computer and Information Science, 2021, , 31-45.	0.4	18
273	Graph Fourier Transform Based Audio Zero-Watermarking. IEEE Signal Processing Letters, 2021, 28, 1943-1947.	2.1	8
274	Anomalous Subgraph Detection in Given Expected Degree Networks With Deep Learning. IEEE Access, 2021, 9, 60052-60062.	2.6	2
275	Spectral Domain Spline Graph Filter Bank. IEEE Signal Processing Letters, 2021, 28, 469-473.	2.1	3
276	Survey on graph embeddings and their applications to machine learning problems on graphs. PeerJ Computer Science, 2021, 7, e357.	2.7	55
278	Separable Complex-Valued Graph Filter Banks for Graph Signals. , 2021, , .		1
279	Dimension constraints improve hypothesis testing for large-scale, graph-associated, brain-image data. Biostatistics, 2021, , .	0.9	1
280	Near-Optimal Graph Signal Sampling by Pareto Optimization. Sensors, 2021, 21, 1415.	2.1	0
281	A Quotient Space Formulation for Generative Statistical Analysis of Graphical Data. Journal of Mathematical Imaging and Vision, 2021, 63, 735-752.	0.8	5
282	Knowledge Integration into deep learning in dynamical systems: an overview and taxonomy. Journal of Mechanical Science and Technology, 2021, 35, 1331-1342.	0.7	15
283	Gabor-Type Frames for Signal Processing on Graphs. Journal of Fourier Analysis and Applications, 2021, 27, 1.	0.5	4
284	Speech signal processing on graphs: The graph frequency analysis and an improved graph Wiener filtering method. Speech Communication, 2021, 127, 82-91.	1.6	11
285	Accuracy-diversity trade-off in recommender systems via graph convolutions. Information Processing and Management, 2021, 58, 102459.	5.4	46
286	Bayesian Topology Learning and noise removal from network data. Discover Internet of Things, 2021, 1, 1.	3.3	10
287	Signal representations via SIP p-frames and SIP Bessel multipliers in separable Banach spaces. International Journal of Wavelets, Multiresolution and Information Processing, 2021, 19, 2150005.	0.9	0
288	Learning dynamic graph embeddings for accurate detection of cognitive state changes in functional brain networks. NeuroImage, 2021, 230, 117791.	2.1	9
289	Graph Learning: A Survey. IEEE Transactions on Artificial Intelligence, 2021, 2, 109-127.	3.4	165
290	Graph Signal Sampling and Interpolation Based on Clusters and Averages. Journal of Fourier Analysis and Applications, 2021, 27, 1.	0.5	3

#	ARTICLE	IF	CITATIONS
291	Natural Graph Wavelet Packet Dictionaries. Journal of Fourier Analysis and Applications, 2021, 27, 1.	0.5	8
292	Adaptive Graph Filtering with Intra-Patch Pixel Smoothing for Image Denoising. Circuits, Systems, and Signal Processing, 2021, 40, 5381-5400.	1.2	5
293	Random Fields in Physics, Biology and Data Science. Frontiers in Physics, 2021, 9, .	1.0	10
294	Combining anatomical and functional networks for neuropathology identification: A case study on autism spectrum disorder. Medical Image Analysis, 2021, 69, 101986.	7.0	23
295	Multi-windowed vertex-frequency analysis for signals on undirected graphs. Computer Communications, 2021, 172, 35-44.	3.1	2
296	Constructing Reliable Network Of Biomarker Covariance By Joint Data Harmonization And Graph Learning. , 2021, , .		0
297	Graphic: Graph-Based Hierarchical Clustering For Single-Molecule Localization Microscopy. , 2021, , .		0
298	Minimax Design of Graph Filter Using Chebyshev Polynomial Approximation. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1630-1634.	2.2	30
300	Graph Neural Networks: Architectures, Stability, and Transferability. Proceedings of the IEEE, 2021, 109, 660-682.	16.4	54
301	Functional annotation of human cognitive states using deep graph convolution. NeuroImage, 2021, 231, 117847.	2.1	40
302	Generalized Newton methods for graph signal matrix completion. , 2021, 112, 103009.		3
304	Substitution of satellite-based land surface temperature defective data using GSP method. Advances in Space Research, 2021, 67, 3106-3124.	1.2	2
305	Hyperharmonic analysis for the study of high-order information-theoretic signals. Journal of Physics Complexity, 2021, 2, 035009.	0.9	6
307	Privacy-Protected Denoising for Signals on Graphs from Distributed Systems. , 2021, , .		1
308	Wiener Filter on Meet/Join Lattices. , 2021, , .		1
309	Topological Volterra Filters. , 2021, , .		6
310	Variance-Constrained Learning for Stochastic Graph Neural Networks. , 2021, , .		3
311	Compact Graph Architecture for Speech Emotion Recognition. , 2021, , .		29

#	ARTICLE	IF	CITATIONS
312	Adaptive Subsampling of Multidomain Signals with Product Graphs. , 2021, , .		4
313	Leveraging High Dimensional Spatial Graph Embedding as a Heuristic for Graph Algorithms. , 2021, , .		1
314	Time-Varying Graph Signal inpainting Via Unrolling Networks. , 2021, , .		5
315	Orthogonality and Zero DC Tradeoffs in Biorthogonal Graph Filterbanks. , 2021, , .		2
316	Robust Graph-Filter Identification with Graph Denoising Regularization. , 2021, , .		5
317	Graph Learning Under Spectral Sparsity Constraints. , 2021, , .		2
318	Kernel Regression on Graphs in Random Fourier Features Space. , 2021, , .		0
319	Detecting Anomalies In Daily COVID-19 Cases Data From Brazil Capitals Using GSP Theory. , 2021, , .		0
320	Wireless 3D Point Cloud Delivery Using Deep Graph Neural Networks. , 2021, , .		4
321	Fault detection of complex planetary gearbox using acoustic signals. Measurement: Journal of the International Measurement Confederation, 2021, 178, 109428.	2.5	11
322	Online Multi-Hop Information Based Kernel Learning Over Graphs. , 2021, , .		1
323	Wide and Deep Graph Neural Networks with Distributed Online Learning. , 2021, , .		3
324	Graph Signal Denoising Using Nested-Structured Deep Algorithm Unrolling. , 2021, , .		5
325	DHCN: Deep Hierarchical Context Networks For Image Annotation. , 2021, , .		3
326	Graphon and Graph Neural Network Stability. , 2021, , .		2
327	Graph-Time Convolutional Neural Networks. , 2021, , .		5
328	From Timeâ€™Frequency to Vertexâ€™Frequency and Back. Mathematics, 2021, 9, 1407.	1.1	2
329	Data-driven thresholding in denoising with Spectral Graph Wavelet Transform. Journal of Computational and Applied Mathematics, 2021, 389, 113319.	1.1	7

#	ARTICLE	IF	CITATIONS
330	Learning Sparse Graph Laplacian with K Eigenvector Prior via Iterative Glasso and Projection. , 2021, , .		2
331	EEG-Based Emotion Classification Using Graph Signal Processing. , 2021, , .		12
332	Identification of Deep Breath While Moving Forward Based on Multiple Body Regions and Graph Signal Analysis. , 2021, , .		2
333	Dual event-triggered control for linear systems with consecutive packet losses. International Journal of Robust and Nonlinear Control, 2021, 31, 6193-6209.	2.1	7
334	Graph Frequency Analysis of COVID-19 Incidence to Identify County-Level Contagion Patterns in the United States. , 2021, , .		1
335	Spectral Folding And Two-Channel Filter-Banks On Arbitrary Graphs. , 2021, , .		3
336	Graph Neural Network for Large-Scale Network Localization. , 2021, , .		19
337	Online Learning of Time-Varying Signals and Graphs. , 2021, , .		2
338	Identifying First-Order Lowpass Graph Signals Using Perron Frobenius Theorem. , 2021, , .		4
339	Design of Graph Signal Sampling Matrices for Arbitrary Signal Subspaces. , 2021, , .		3
340	Unrolling of Deep Graph Total Variation for Image Denoising. , 2021, , .		10
341	Spline Graph Filter Bank with Spectral Sampling. Circuits, Systems, and Signal Processing, 2021, 40, 5744-5758.	1.2	3
342	Statistical Graph Signal Recovery Using Variational Bayes. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2232-2236.	2.2	6
343	Graph Neural Networks for Decentralized Controllers. , 2021, , .		13
344	Regularized Recovery by Multi-Order Partial Hypergraph Total Variation. , 2021, , .		1
345	Graph Signal Compression via Task-Based Quantization. , 2021, , .		3
346	Graph Signal Denoising Via Unrolling Networks. , 2021, , .		0
347	Partition of Unity Methods for Signal Processing on Graphs. Journal of Fourier Analysis and Applications, 2021, 27, 1.	0.5	11

#	ARTICLE	IF	CITATIONS
348	Robust and label efficient bi-filtering graph convolutional networks for node classification. Knowledge-Based Systems, 2021, 224, 106891.	4.0	7
349	Signal Processing with a Distribution of Graph Operators. , 2021, , .		2
351	Transform-based graph topology similarity metrics. Neural Computing and Applications, 2021, 33, 16363-16375.	3.2	6
352	Graph Learning From Noisy and Incomplete Signals on Graphs. , 2021, , .		2
353	Sparse Partial Least Squares for Coarse Noisy Graph Alignment. , 2021, , .		0
354	Online domain adaptation for continuous cross-subject liver viability evaluation based on irregular thermal data. IISE Transactions, 2022, 54, 869-880.	1.6	2
355	Graph convolutional neural networks with node transition probability-based message passing and DropNode regularization. Expert Systems With Applications, 2021, 174, 114711.	4.4	15
356	A signal processing perspective to community detection in dynamic networks. , 2021, 119, 103192.		2
357	Signal Processing on the Permutahedron: Tight Spectral Frames for Ranked Data Analysis. Journal of Fourier Analysis and Applications, 2021, 27, 1.	0.5	3
358	Moving target recognition with seismic sensing: A review. Measurement: Journal of the International Measurement Confederation, 2021, 181, 109584.	2.5	13
359	Temporal Graph Signal Decomposition. , 2021, , .		3
360	EEG-based motor imagery classification using digraph Fourier transforms and extreme learning machines. Biomedical Signal Processing and Control, 2021, 69, 102831.	3.5	12
361	Diffusion-informed spatial smoothing of fMRI data in white matter using spectral graph filters. NeuroImage, 2021, 237, 118095.	2.1	22
362	Target Detection and Recognition of Ground Penetrating Radar using Morphological Image Analysis and Graph Laplacian Regularisation. , 2021, , .		1
363	Fast & Robust Image Interpolation Using Gradient Graph Laplacian Regularizer. , 2021, , .		7
364	Multi-Resolution Intra-Predictive Coding Of 3d Point Cloud Attributes. , 2021, , .		4
365	Symmetry-Based Graph Fourier Transforms: Are They Optimal For Image Compression?. , 2021, , .		2
366	Graph Learning Techniques Using Structured Data for IoT Air Pollution Monitoring Platforms. IEEE Internet of Things Journal, 2021, 8, 13652-13663.	5.5	14

#	ARTICLE	IF	CITATIONS
367	Averaging dynamics, mortal random walkers and information aggregation on graphs. Journal of Physics Complexity, 2021, 2, 045005.	0.9	0
368	Online discriminative graph learning from multi-class smooth signals. Signal Processing, 2021, 186, 108101.	2.1	15
369	Improving Classification Accuracy With Graph Filtering. , 2021, , .		0
370	Smooth graph learning for functional connectivity estimation. NeuroImage, 2021, 239, 118289.	2.1	14
371	Signal processing on higher-order networks: Livinâ€™™ on the edge... and beyond. Signal Processing, 2021, 187, 108149.	2.1	60
372	Approximation theorems on graphs. Journal of Approximation Theory, 2021, 270, 105620.	0.5	3
373	Graph-signal Reconstruction and Blind Deconvolution for Structured Inputs. Signal Processing, 2021, 188, 108180.	2.1	4
374	An orthogonal partition selection strategy for the sampling of graph signals with successive local aggregations. Signal Processing, 2021, 188, 108211.	2.1	4
375	Meteorological and human mobility data on predicting COVID-19 cases by a novel hybrid decomposition method with anomaly detection analysis: A case study in the capitals of Brazil. Expert Systems With Applications, 2021, 182, 115190.	4.4	20
376	Stability of graph convolutional neural networks to stochastic perturbations. Signal Processing, 2021, 188, 108216.	2.1	14
377	Windowed fractional Fourier transform on graphs: Properties and fast algorithm. , 2021, 118, 103210.		12
378	Modelling and studying the effect of graph errors in graph signal processing. Signal Processing, 2021, 189, 108256.	2.1	4
379	Sensor network data denoising via recursive graph median filters. Signal Processing, 2021, 189, 108302.	2.1	16
380	Semi-supervised graph convolutional network and its application in intelligent fault diagnosis of rotating machinery. Measurement: Journal of the International Measurement Confederation, 2021, 186, 110084.	2.5	47
381	Neural Network Approximation of Graph Fourier Transform for Sparse Sampling of Networked Dynamics. ACM Transactions on Internet Technology, 2022, 22, 1-18.	3.0	0
382	Graph variational auto-encoder for deriving EEG-based graph embedding. Pattern Recognition, 2022, 121, 108202.	5.1	21
383	Graphical network and topology estimation for autoregressive models using Gibbs sampling. Signal Processing, 2022, 190, 108303.	2.1	1
384	Nonintrusive Load Disaggregation for Residential Users Based on Alternating Optimization and Downsampling. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	2.4	11

#	ARTICLE	IF	CITATIONS
385	Kernel-Based Graph Learning From Smooth Signals: A Functional Viewpoint. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 192-207.	1.6	9
386	Digraph Signal Processing With Generalized Boundary Conditions. IEEE Transactions on Signal Processing, 2021, 69, 1422-1437.	3.2	7
387	A Hybrid Compression Framework for Color Attributes of Static 3D Point Clouds. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 1564-1577.	5.6	49
388	Online proximal gradient for learning graphs from streaming signals. , 2021, , .		1
389	Privacy Risks of Social Interaction Structure: Network Learning in Quadratic Games. SSRN Electronic Journal, 0, , .	0.4	2
390	Discrete Signal Processing on Meet/Join Lattices. IEEE Transactions on Signal Processing, 2021, 69, 3571-3584.	3.2	6
391	Quantum Mechanics-Based Signal and Image Representation: Application to Denoising. IEEE Open Journal of Signal Processing, 2021, 2, 190-206.	2.3	22
392	Identification of Edge Disconnections in Networks Based on Graph Filter Outputs. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 578-594.	1.6	5
393	HSGAN: Hierarchical Graph Learning for Point Cloud Generation. IEEE Transactions on Image Processing, 2021, 30, 4540-4554.	6.0	12
394	Distributed Training of Graph Convolutional Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 87-100.	1.6	6
395	A New Node Optimization Algorithm of Wireless Sensor Network Based on Graph Signal. Lecture Notes in Electrical Engineering, 2021, , 594-599.	0.3	0
396	A Graph Signal Processing Framework for the Classification of Temporal Brain Data. , 2021, , .		6
397	Undirected Graphs: Is the Shift-Enabled Condition Trivial or Necessary?. IEEE Access, 2021, 9, 75082-75089.	2.6	1
398	2D Discrete Mirror Transform for Image Non-Linear Approximation. , 2021, , .		1
399	Graphon Signal Processing. IEEE Transactions on Signal Processing, 2021, 69, 4961-4976.	3.2	11
400	GraphBGS: Background Subtraction via Recovery of Graph Signals. , 2021, , .		12
401	Improving J-Divergence of Brain Connectivity States by Graph Laplacian Denoising. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 493-508.	1.6	5
402	Multi-Scale Graph Convolutional Network With Spectral Graph Wavelet Frame. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 595-610.	1.6	8

#	ARTICLE	IF	CITATIONS
403	EdgeNets: Edge Varying Graph Neural Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 7457-7473.	9.7	16
404	LinkAUC: Unsupervised Evaluation of Multiple Network Node Ranks Using Link Prediction. Studies in Computational Intelligence, 2020, , 3-14.	0.7	1
405	Adaptive Complex Singular Spectrum Analysis with Application to Modern Superresolution Methods. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 35-54.	0.5	4
407	Graph Neural Networks for Decentralized Multi-Robot Path Planning. , 2020, , .		90
408	Topological Signal Processing: Making Sense of Data Building on Multiway Relations. IEEE Signal Processing Magazine, 2020, 37, 174-183.	4.6	15
409	Signal Processing on Directed Graphs: The Role of Edge Directionality When Processing and Learning From Network Data. IEEE Signal Processing Magazine, 2020, 37, 99-116.	4.6	28
410	Graphs, Convolutions, and Neural Networks: From Graph Filters to Graph Neural Networks. IEEE Signal Processing Magazine, 2020, 37, 128-138.	4.6	90
411	Community-Aware Graph Signal Processing: Modularity Defines New Ways of Processing Graph Signals. IEEE Signal Processing Magazine, 2020, 37, 150-159.	4.6	5
412	Industrial Pollution Areas Detection and Location via Satellite-Based IIOT. IEEE Transactions on Industrial Informatics, 2020, , 1-1.	7.2	11
413	Multivariate Relations Aggregation Learning in Social Networks. , 2020, , .		23
414	A Graph Signal Processing Framework for Atrial Activity Extraction. , 2019, , .		2
415	Low-Bit Quantization for Attributed Network Representation Learning. , 2019, , .		12
416	Temporal Multiresolution Graph Learning. IEEE Access, 2021, 9, 143734-143745.	2.6	2
417	Efficient Node Selection Strategy for Sampling Bandlimited Signals on Graphs. IEEE Transactions on Signal Processing, 2021, 69, 5815-5829.	3.2	7
418	Point Cloud Resampling via Hypergraph Signal Processing. IEEE Signal Processing Letters, 2021, 28, 2117-2121.	2.1	5
419	Joint Detection and Localization of Stealth False Data Injection Attacks in Smart Grids Using Graph Neural Networks. IEEE Transactions on Smart Grid, 2022, 13, 807-819.	6.2	39
420	Learning-Based Edge Sensing and Control Co-Design for Industrial Cyber-Physical System. IEEE Transactions on Automation Science and Engineering, 2023, 20, 59-73.	3.4	5
421	Mapping Fluvial Inundation Extents with Graph Signal Filtering of River Depths Determined from Unsupervised Clustering of Synthetic Aperture Radar Imagery. , 2021, , .		2



#	ARTICLE	IF	CITATIONS
422	Analysis Of Contractions In System Graphs: Application To State Estimation. , 2021, , .		2
423	Graph signal processing based underwater image enhancement techniques. Engineering Science and Technology, an International Journal, 2022, 32, 101059.	2.0	3
425	Spatio-temporal signal recovery under diffusion-induced smoothness and temporal correlation priors. IET Signal Processing, 2022, 16, 157-169.	0.9	1
426	Graph Based Event Processing. , 2019, , .		0
427	Generalized Benford's Distribution for Data Defined on Irregular Grid. Advances in Intelligent Systems and Computing, 2019, , 383-391.	0.5	0
429	Slepian guided filtering of graph signals. , 2019, , .		0
430	Comparing Spectra of Graph Shift Operator Matrices. Studies in Computational Intelligence, 2020, , 191-202.	0.7	1
431	Voice Synthesis System Based on Recursive Functions Designed by Graphs. Research in Computing Science, 2019, 148, 347-355.	0.1	1
433	Supervised Graph Representation Learning for Modeling the Relationship between Structural and Functional Brain Connectivity. , 2020, , .		5
435	Sampling Set Selection for Bandlimited Signals over Perturbed Graph. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2020, E103.A, 845-849.	0.2	0
437	Graph-based Deep Learning Analysis and Instance Selection. , 2020, , .		0
438	Graph Signal Denoising Method via Hybrid Neumann-Series and Edge-Variant Graph Filters. , 2021, , .		1
439	Video Summarization Using Deep Neural Networks: A Survey. Proceedings of the IEEE, 2021, 109, 1838-1863.	16.4	110
440	Regional non-intrusive electric vehicle monitoring based on graph signal processing. IET Generation, Transmission and Distribution, 2020, 14, 6512-6517.	1.4	0
441	An ad hoc topology-based graph signal sampling. , 2020, , .		0
442	Bandwidth Detection of Graph Signals with a Small Sample Size. Sensors, 2021, 21, 146.	2.1	2
443	Graph Signal Processing on Complex Networks for Structural Health Monitoring. Studies in Computational Intelligence, 2021, , 249-261.	0.7	4
445	An Efficient Bit Allocation Scheme for Weighted Random Graph Signal Sampling and Quantization. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
446	Accelerated Graph Learning From Smooth Signals. IEEE Signal Processing Letters, 2021, 28, 2192-2196.	2.1	9
447	Graph Signal Processing, Graph Neural Network and Graph Learning on Biological Data: A Systematic Review. IEEE Reviews in Biomedical Engineering, 2023, 16, 109-135.	13.1	16
448	Spatio-Temporal Graph Neural Networks for Multi-Site PV Power Forecasting. IEEE Transactions on Sustainable Energy, 2022, 13, 1210-1220.	5.9	58
449	JONNEE: Joint Network Nodes and Edges Embedding. IEEE Access, 2021, 9, 144646-144659.	2.6	23
450	Graph Moving Object Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, PP, 1-1.	9.7	19
451	A Graph Signal Processing Technique for Vibration Analysis with Clustered Sensor Networks. Lecture Notes in Electrical Engineering, 2020, , 355-361.	0.3	0
452	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
453	Latent-Graph Learning for Disease Prediction. Lecture Notes in Computer Science, 2020, , 643-653.	1.0	18
454	Anisotropic Graph Convolutional Network for Semi-Supervised Learning. IEEE Transactions on Multimedia, 2021, 23, 3931-3942.	5.2	3
456	Point Cloud Segmentation based on Hypergraph Spectral Clustering. , 2020, , .		1
457	Graph-Based Dynamic Modeling and Traffic Prediction of Urban Road Network. IEEE Sensors Journal, 2021, 21, 28118-28130.	2.4	3
458	Clusformer: A Transformer based Clustering Approach to Unsupervised Large-scale Face and Visual Landmark Recognition. , 2021, , .		20
459	Learnable Motion Coherence for Correspondence Pruning. , 2021, , .		20
461	Non-Intrusive Load Monitoring for Multi-objects in Smart Building. , 2021, , .		1
462	Localized Fourier analysis for graph signal processing. Applied and Computational Harmonic Analysis, 2022, 57, 1-26.	1.1	5
465	Non-Intrusive Load Monitoring of Water Heaters Using Low-Resolution Data. , 2020, , .		0
467	Implementation of Temperature Data Denoising Operator Using Steepest Descent Method. , 2021, , .		1
468	Moving Object Detection for Event-based Vision using Graph Spectral Clustering. , 2021, , .		24

#	ARTICLE	IF	CITATIONS
469	Adaptive Normalized LMP Estimation for Graph Signal Processing. , 2021, , .		4
470	A Generative Model for Correlated Graph Signals. Mathematics, 2021, 9, 3078.	1.1	0
472	Deep semi-supervised learning via dynamic anchor graph embedding in latent space. Neural Networks, 2022, 146, 350-360.	3.3	14
473	A Reconstruction Method for Graph Signals Based on the Power Spectral Density Estimation. , 2021, 122, 103347.		7
474	CatGCN: Graph Convolutional Networks With Categorical Node Features. IEEE Transactions on Knowledge and Data Engineering, 2023, 35, 3500-3511.	4.0	1
475	Graph Neural Networks Based Detection of Stealth False Data Injection Attacks in Smart Grids. IEEE Systems Journal, 2022, 16, 2946-2957.	2.9	37
477	Compression of Plenoptic Point Cloud Attributes Using 6-D Point Clouds and 6-D Transforms. IEEE Transactions on Multimedia, 2023, 25, 593-607.	5.2	4
478	eGHWT: The Extended Generalized Haar-Walsh Transform. Journal of Mathematical Imaging and Vision, 2022, 64, 261-283.	0.8	3
479	A new multilayer graph model for speech signals with graph learning. , 2022, 122, 103360.		3
480	Turning Digital Signal Processing into Graph Signal Processing: Overview and Applications. , 2020, , .		0
481	Graph-Based Array Signal Denoising for Perturbed Synthetic Aperture Radar. , 2020, , .		2
482	Narrowband Angle of Arrival Estimation Exploiting Graph Topology and Graph Signals. , 2020, , .		5
483	On the Graph Construction of Signal De-Noising Method Using Laplacian Matrix. , 2020, , .		0
484	Design of Graph Filter Using Least-Squares Method with Parameter Norm Penalty. , 2020, , .		9
485	Threshold Performance Improvement of DOA Estimation using Pseudo-Noise Resampling and Toeplitz Covariance Matrix Approximation. , 2020, , .		2
486	Speech Signal Processing on Graphs: Graph Topology, Graph Frequency Analysis and Denoising. Chinese Journal of Electronics, 2020, 29, 926-936.	0.7	5
487	Graph-Based Micro-Seismic Signal Classification with an Optimised Feature Space. , 2020, , .		4
488	Investigation of Stationarity for Graph Time Series Data Sets. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
489	Performance Improvement of Energy Detection in Cognitive Radio Under Noise Uncertainty. , 2020, , .		1
490	Blue-Noise Sampling of Graph and Multigraph Signals: Dithering on Non-Euclidean Domains. IEEE Signal Processing Magazine, 2020, 37, 31-42.	4.6	6
491	Graph Diffusion Kernel LMS using Random Fourier Features. , 2020, , .		7
492	Rational Graph Filter Design Using Spectral Transformation and IIR Digital Filter. , 2020, , .		9
493	Edge Entropy as an Indicator of the Effectiveness of GNNs over CNNs for Node Classification. , 2020, , .		0
494	Graph Signal Processing: Foundations and Emerging Directions [From the Guest Editors]. IEEE Signal Processing Magazine, 2020, 37, 11-13.	4.6	14
495	Rational Chebyshev Graph Filters. , 2020, , .		2
496	A Temperature Data Denoising Method Using Laplacian Matrix and Neumann Series. , 2020, , .		3
497	Graph Fourier Transform Centrality for Taipei Metro System. , 2020, , .		6
498	Detecting ADHD children based on EEG signals using Graph Signal Processing techniques. , 2020, , .		4
499	Denoising Signals on the Graph for Distributed Systems by Secure Outsourced Computation. , 2021, , .		0
500	Online Graph Learning under Smoothness Priors. , 2021, , .		6
501	Sampling Graph Signals with Sparse Dictionary Representation. , 2021, , .		0
502	Inferring Graph Signal Translations as Invariant Transformations for Classification Tasks. , 2021, , .		0
503	Seismic Fault Analysis Using Graph Signal Regularization. , 2021, , .		4
504	Finite Impulse Response Filters for Simplicial Complexes. , 2021, , .		23
505	Multiscale Anisotropic Harmonic Filters on non Euclidean domains. , 2021, , .		1
506	Deep Demixing: Reconstructing the Evolution of Epidemics using Graph Neural Networks. , 2021, , .		4

#	ARTICLE	IF	CITATIONS
507	Learning Parametric Time-Vertex Graph Processes from Incomplete Realizations. , 2021, , .		1
508	Graph CNN for Moving Object Detection in Complex Environments from Unseen Videos. , 2021, , .		14
509	A Discriminative Characterization of Heschl's Gyrus Morphology using Spectral Graph Features. , 2021, 2021, 3577-3581.		2
510	Cortical Surface-Informed Volumetric Spatial Smoothing of fMRI Data via Graph Signal Processing. , 2021, 2021, 3804-3808.		2
511	Moving Object Detection for Event-based Vision using k-means Clustering. , 2021, , .		5
512	A Distributed Algorithm for Reconstructing Time-Varying Graph Signals. Circuits, Systems, and Signal Processing, 2022, 41, 3624-3641.	1.2	2
513	Functional brain activity constrained by structural connectivity reveals cohort-specific features for serum neurofilament light chain. Communications Medicine, 2022, 2, .	1.9	2
514	Non-smooth interpolation of graph signals. Signal Processing, 2022, 196, 108480.	2.1	5
515	Deep graph feature learning-based diagnosis approach for rotating machinery using multi-sensor data. Journal of Intelligent Manufacturing, 2023, 34, 1965-1974.	4.4	13
516	MTHetGNN: A heterogeneous graph embedding framework for multivariate time series forecasting. Pattern Recognition Letters, 2022, 153, 151-158.	2.6	13
517	Quantization-aware sampling set selection for bandlimited graph signals. Eurasip Journal on Advances in Signal Processing, 2022, 2022, .	1.0	4
518	Point Cloud Sampling via Graph Balancing and Gershgorin Disc Alignment. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 868-886.	9.7	4
519	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
520	Scalable Perception-Action-Communication Loops With Convolutional and Graph Neural Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 12-24.	1.6	6
521	Polynomial graph filters of multiple shifts and distributed implementation of inverse filtering. Sampling Theory, Signal Processing, and Data Analysis, 2022, 20, 1.	0.8	4
522	Community-based anomaly detection using spectral graph filtering. Applied Soft Computing Journal, 2022, 118, 108489.	4.1	6
523	An Efficient Hypergraph Approach to Robust Point Cloud Resampling. IEEE Transactions on Image Processing, 2022, 31, 1924-1937.	6.0	8
524	Kernel Regression Over Graphs Using Random Fourier Features. IEEE Transactions on Signal Processing, 2022, 70, 936-949.	3.2	13

#	ARTICLE	IF	CITATIONS
525	Noise removal algorithm based on point cloud classification. , 2022, , .		4
526	Detection and Localization of PMU Time Synchronization Attacks via Graph Signal Processing. IEEE Transactions on Smart Grid, 2022, 13, 3241-3254.	6.2	6
527	Graph-Based Denoising for Respiration and Heart Rate Estimation During Sleep in Thermal Video. IEEE Internet of Things Journal, 2022, 9, 15697-15713.	5.5	9
528	On the Fractionalization of the Shift Operator on Graphs. IEEE Access, 2022, 10, 16468-16478.	2.6	0
529	A Unifying Generative Model for Graph Learning Algorithms: Label Propagation, Graph Convolutions, and Combinations. SIAM Journal on Mathematics of Data Science, 2022, 4, 100-125.	1.0	4
530	Selecting the Best DOA Estimates among Estimates Obtained using Toeplitz Matrix Approximation and General Covariance Matrix. , 2021, , .		1
531	Fast Graph-based Binary Classifier Learning via Further Relaxation of Semi-Definite Relaxation. , 2022, , .		2
532	Decoupling Identification Method of Continuous Working Conditions of Diesel Engines Based on a Graph Self-Attention Network. IEEE Access, 2022, 10, 36649-36661.	2.6	3
533	Adversarial Attack Framework on Graph Embedding Models with Limited Knowledge. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-1.	4.0	3
534	Reconstruction of Time-Varying Graph Signals via Sobolev Smoothness. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 201-214.	1.6	14
535	Overhead Reduction for Graph-Based Point Cloud Delivery Using Non-Uniform Quantization. , 2022, , .		1
536	DCT and DST Filtering With Sparse Graph Operators. IEEE Transactions on Signal Processing, 2022, 70, 1641-1656.	3.2	2
537	Bayesian Estimation of Graph Signals. IEEE Transactions on Signal Processing, 2022, 70, 2207-2223.	3.2	11
538	Community Inference From Partially Observed Graph Signals: Algorithms and Analysis. IEEE Transactions on Signal Processing, 2022, 70, 2136-2151.	3.2	4
539	Robust Adaptive Estimation of Graph Signals Based on Welsch Loss. Symmetry, 2022, 14, 426.	1.1	1
540	A Review of Graph Signal Processing with Neural Networks. International Journal of Circuits, Systems and Signal Processing, 2022, 16, 741-746.	0.2	0
541	Joint Estimation of Azimuth and Distance for Far-Field Multi Targets Based on Graph Signal Processing. Remote Sensing, 2022, 14, 1110.	1.8	7
543	Analysis of Hypergraph Signals via High-Order Total Variation. Symmetry, 2022, 14, 543.	1.1	1

#	ARTICLE	IF	CITATIONS
544	Signal processing of simplicial complexes. Journal of Physics: Conference Series, 2022, 2182, 012017.	0.3	0
545	Overview of the Topical Collection: Harmonic Analysis on Combinatorial Graphs. Journal of Fourier Analysis and Applications, 2022, 28, 1.	0.5	0
546	Graph regularization multidimensional projection. Pattern Recognition, 2022, 129, 108690.	5.1	4
547	Connecting the dots in ethology: applying network theory to understand neural and animal collectives. Current Opinion in Neurobiology, 2022, 73, 102532.	2.0	3
548	Unlimited Dynamic Range Signal Recovery for Folded Graph Signals. Signal Processing, 2022, , 108574.	2.1	1
549	A recommendation prediction method based on the estimation of PSD of sampled signals on graph. Expert Systems With Applications, 2022, , 117097.	4.4	2
550	Graph signal interpolation with positive definite graph basis functions. Applied and Computational Harmonic Analysis, 2022, 60, 368-395.	1.1	4
551	Graph Neural Networks for State Estimation in Water Distribution Systems: Application of Supervised and Semisupervised Learning. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	1.3	13
552	Spectral Graph Theoretic analysis of process systems: an application to distillation columns. Computers and Chemical Engineering, 2022, 161, 107748.	2.0	3
553	Graph regression for pressure peak prediction in fracturing processes. Journal of Petroleum Science and Engineering, 2022, 213, 110323.	2.1	0
554	Distributed linear-quadratic control with graph neural networks. Signal Processing, 2022, 196, 108506.	2.1	8
555	Distributed algorithms to determine eigenvectors of matrices on spatially distributed networks. Signal Processing, 2022, 196, 108530.	2.1	2
556	Transferable Graph Neural Networks on Large-Scale Stochastic Graphs. , 2021, , .		0
557	A Robust Alternative for Graph Convolutional Neural Networks via Graph Neighborhood Filters. , 2021, , .		3
558	Topological Signal Processing over Cell Complexes. , 2021, , .		11
559	Network Recovery from Unlabeled Noisy Samples. , 2021, , .		2
560	An Autonomous Electronic Zoological Feeder. , 2021, , .		1
561	On the Upper Bound of Filter Length in the Design of Polynomial Graph Filter. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
562	Characterization and Classification of Cyber Attacks in Smart Grids using Local Smoothness of Graph Signals. , 2021, , .		1
563	Graph Signal Denoising Methods Using Sparseness and Bandlimitedness Priors in GFT Domain. , 2021, , .		3
564	The Signal Feature Extraction of Graph Fourier Transform on the Constructed Graph. , 2021, , .		0
565	Denoising Diffusion MRI via Graph Total Variance in Spatioangular Domain. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-8.	0.7	0
566	A computational framework for modeling complex sensor network data using graph signal processing and graph neural networks in structural health monitoring. Applied Network Science, 2021, 6, .	0.8	10
567	A Study of Total Variation Regularization in Digraph Signal Denoising. , 2021, , .		1
568	Approximate High Dimensional Graph Mining With Matrix Polar Factorization: A Twitter Application. , 2021, , .		2
569	Machine and Deep Learning Algorithms and Applications. Synthesis Lectures on Signal Processing, 2021, 12, 1-123.	0.3	1
570	Node-Asynchronous Implementation of Filter Banks on Graphs. , 2020, , .		0
571	Signal Processing on Simplicial Complexes With Vertex Signals. IEEE Access, 2022, 10, 41889-41901.	2.6	3
572	Detecting Central Nodes From Low-Rank Excited Graph Signals via Structured Factor Analysis. IEEE Transactions on Signal Processing, 2022, 70, 2416-2430.	3.2	7
573	Permutation Entropy for Graph Signals. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 288-300.	1.6	6
574	Synthesizing Decentralized Controllers With Graph Neural Networks and Imitation Learning. IEEE Transactions on Signal Processing, 2022, 70, 1932-1946.	3.2	14
575	scSGL: kernelized signed graph learning for single-cell gene regulatory network inference. Bioinformatics, 2022, 38, 3011-3019.	1.8	5
576	Distributed functional link adaptive filtering for nonlinear graph signal processing. , 2022, 128, 103558.		6
577	Fast Library Recommendation in Software Dependency Graphs with Symmetric Partially Absorbing Random Walks. Future Internet, 2022, 14, 124.	2.4	2
578	A Graph Fourier Transform Based Bidirectional Long Short-Term Memory Neural Network for Electrophysiological Source Imaging. Frontiers in Neuroscience, 2022, 16, 867466.	1.4	19
579	Measuring stability and structural breaks: Applications in social sciences. Journal of Economic Surveys, 2023, 37, 302-320.	3.7	2



#	ARTICLE	IF	CITATIONS
580	Pruning graph convolutional network-based feature learning for fault diagnosis of industrial processes. Journal of Process Control, 2022, 113, 101-113.	1.7	19
582	Functional Parcellation of Human Brain Using Localized Topo-Connectivity Mapping. IEEE Transactions on Medical Imaging, 2022, 41, 2670-2680.	5.4	3
583	Bag of Tricks for Training Deeper Graph Neural Networks: A Comprehensive Benchmark Study. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, PP, 1-1.	9.7	8
584	Volterra Graph-Based Outlier Detection for Air Pollution Sensor Networks. IEEE Transactions on Network Science and Engineering, 2022, 9, 2759-2771.	4.1	6
585	Signal Processing on Simplicial Complexes. Understanding Complex Systems, 2022, , 301-328.	0.3	5
586	Gaussian Kernel Variance for an Adaptive Learning Method on Signals Over Graphs. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 389-403.	1.6	2
587	Enhanced Motor Imagery-Based Eeg Classification Using A Discriminative Graph Fourier Subspace. , 2022, , .		6
588	Development of a chemically intuitive filter for chemical graph convolutional network. Bulletin of the Korean Chemical Society, 0, , .	1.0	0
589	Causal Linear Topological Filters Over A 2-Simplex. , 2022, , .		0
590	Label Propagation Across Graphs: Node Classification Using Graph Neural Tangent Kernels. , 2022, , .		2
591	Joint Inference of Multiple Graphs with Hidden Variables from Stationary Graph Signals. , 2022, , .		5
592	Robust Signal Processing Over Simplicial Complexes. , 2022, , .		1
593	Edge Sampling of Graphs Based on Edge Smoothness. , 2022, , .		1
594	Blind Extraction of Equitable Partitions from Graph Signals. , 2022, , .		1
595	Learning Expanding Graphs for Signal Interpolation. , 2022, , .		2
596	Convolutional Filtering in Simplicial Complexes. , 2022, , .		3
597	Dynamic Portfolio Cuts: A Spectral Approach to Graph-Theoretic Diversification. , 2022, , .		3
598	Multimodal Graph Signal Denoising Via Twofold Graph Smoothness Regularization with Deep Algorithm Unrolling. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
599	Fast Graph Sampling for Short Video Summarization Using Gershgorin Disc Alignment. , 2022, , .		1
600	The relationship between graph Fourier transform (GFT) and discrete cosine transform (DCT) for 1D signal and 2D image. Signal, Image and Video Processing, 0, , .	1.7	0
601	Simplicial Convolutional Neural Networks. , 2022, , .		13
602	Annihilation Filter Approach for Estimating Graph Dynamics from Diffusion Processes. , 2022, , .		1
603	Linear-Time Sampling on Signed Graphs Via Gershgorin Disc Perfect Alignment. , 2022, , .		1
604	A graph signal processingâ€based multiple model <scp>Kalman</scp> filter (<scp>GSPâ€MMKF</scp>) tool for predictive analytics: An air separation unit process application. Journal of Advanced Manufacturing and Processing, 2022, 4, .	1.4	2
605	Graph Learning Information Criterion. , 2022, , .		0
606	WLS Design of Arma Graph Filters Using Iterative Second-Order Cone Programming. , 2022, , .		2
607	Wide-Sense Stationarity and Spectral Estimation for Generalized Graph Signal. , 2022, , .		0
608	On the Stability of Low Pass Graph Filter with a Large Number of Edge Rewires. , 2022, , .		4
609	Point cloud denoising review: from classical to deep learning-based approaches. Graphical Models, 2022, 121, 101140.	1.1	24
610	Topologizing Sound Synthesis Via Sheaves. , 2021, , .		1
611	Multiview Spectral Clustering With Bipartite Graph. IEEE Transactions on Image Processing, 2022, 31, 3591-3605.	6.0	13
612	Cyberattack Detection in Large-Scale Smart Grids using Chebyshev Graph Convolutional Networks. , 2022, , .		3
613	Rest-fMRI based comparison study between autism spectrum disorder and typically control using graph frequency bands. Computers in Biology and Medicine, 2022, 146, 105643.	3.9	6
614	A Graph Signal Processing Framework for Detecting and Locating Cyber and Physical Stresses in Smart Grids. IEEE Transactions on Smart Grid, 2022, 13, 3688-3699.	6.2	10
615	A Fog-Assisted Framework for Intelligent Video Preprocessing in Cloud-Based Video Surveillance as a Service. IEEE Transactions on Sustainable Computing, 2022, 7, 825-838.	2.2	2
616	Distribution Systems AC State Estimation via Sparse AMI Data Using Graph Signal Processing. IEEE Transactions on Smart Grid, 2022, 13, 3636-3649.	6.2	4

#	ARTICLE	IF	CITATIONS
617	Graph Layer Security: Encrypting Information via Common Networked Physics. <i>Sensors</i> , 2022, 22, 3951.	2.1	3
618	Non-Intrusive Load Monitoring of Buildings Using Spectral Clustering. <i>Sensors</i> , 2022, 22, 4036.	2.1	7
619	Data reconstruction applications for IoT air pollution sensor networks using graph signal processing. <i>Journal of Network and Computer Applications</i> , 2022, 205, 103434.	5.8	5
620	SemiSegSAR: A Semi-Supervised Segmentation Algorithm for Ship SAR Images. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5.	1.4	9
621	Point Cloud Video Super-Resolution via Partial Point Coupling and Graph Smoothness. <i>IEEE Transactions on Image Processing</i> , 2022, 31, 4117-4132.	6.0	2
622	Graph Signal Processing: Dualizing GSP Sampling in the Vertex and Spectral Domains. <i>IEEE Transactions on Signal Processing</i> , 2022, 70, 2883-2898.	3.2	5
623	Graph Signal Restoration Using Nested Deep Algorithm Unrolling. <i>IEEE Transactions on Signal Processing</i> , 2022, 70, 3296-3311.	3.2	5
624	Wide-Sense Stationarity in Generalized Graph Signal Processing. <i>IEEE Transactions on Signal Processing</i> , 2022, 70, 3414-3428.	3.2	2
625	Minimax Design of Computationally-Efficient FIR Graph Filters Using Semidefinite Programming. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2022, 69, 3655-3659.	2.2	1
626	Digraph Filter Design Based on Directed Laplacian Matrix and Least Squares Method. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2022, 69, 4332-4344.	3.5	2
628	A Unified Approach for Simultaneous Graph Learning and Blind Separation of Graph Signal Sources. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2022, 8, 543-555.	1.6	5
629	Complexity visualization, dataset acquisition, and machine-learning perspectives for low-temperature plasma: a review. <i>Japanese Journal of Applied Physics</i> , 2022, 61, 070101.	0.8	4
630	Modularity-aware graph autoencoders for joint community detection and link prediction. <i>Neural Networks</i> , 2022, 153, 474-495.	3.3	16
631	Compressive Representations of Weather Scenes for Strategic Air Traffic Flow Management. , 2022, , .		0
632	Domain-Informed Neural Networks for Interaction Localization Within Astroparticle Experiments. <i>Frontiers in Artificial Intelligence</i> , 0, 5, .	2.0	2
633	Deep learning models of cognitive processes constrained by human brain connectomes. <i>Medical Image Analysis</i> , 2022, 80, 102507.	7.0	10
634	Detection of functional activity in brain white matter using fiber architecture informed synchrony mapping. <i>NeuroImage</i> , 2022, 258, 119399.	2.1	3
635	Adaptive sign algorithm for graph signal processing. <i>Signal Processing</i> , 2022, 200, 108662.	2.1	7

#	ARTICLE	IF	CITATIONS
636	Graph Representation Learning. Synthesis Lectures on Artificial Intelligence and Machine Learning, 2020, , .	0.6	135
637	Salt and Pepper Noise Removal Method Based on Graph Signal Reconstruction. SSRN Electronic Journal, 0, , .	0.4	0
638	Fast Computation of Generalized Eigenvectors for Manifold Graph Embedding. , 2022, , .		2
639	Graph Filtering Over Expanding Graphs. , 2022, , .		2
640	Collaborative Robot Mapping using Spectral Graph Analysis. , 2022, , .		4
641	Node-Variant Graph Filters in Graph Neural Networks. , 2022, , .		0
642	fGOT: Graph Distances Based on Filters and Optimal Transport. Proceedings of the AAAI Conference on Artificial Intelligence, 2022, 36, 7710-7718.	3.6	1
643	Getting over High-Dimensionality: How Multidimensional Projection Methods Can Assist Data Science. Applied Sciences (Switzerland), 2022, 12, 6799.	1.3	3
644	Explainability in Graph Data Science: Interpretability, replicability, and reproducibility of community detection. IEEE Signal Processing Magazine, 2022, 39, 25-39.	4.6	0
645	Neural decoding of imagined speech from EEG signals using the fusion of graph signal processing and graph learning techniques. Neuroscience Informatics, 2022, 2, 100091.	2.8	5
646	A noncommutative approach to the graphon Fourier transform. Applied and Computational Harmonic Analysis, 2022, 61, 101-131.	1.1	3
647	Distributed Correlation Detection in Streaming Graph Signal. , 2022, , .		0
648	Cooperative planning of multi-agent systems based on task-oriented knowledge fusion with graph neural networks. Frontiers of Information Technology and Electronic Engineering, 2022, 23, 1069-1076.	1.5	5
649	Atomic filter: A weak form of shift operator for graph signals. , 2022, 129, 103644.		0
650	A New PLV-Spatial Filtering to Improve the Classification Performance in BCI Systems. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 2275-2282.	2.7	1
651	Smart and Secure Dyeing Industrial Water Pollution Monitoring Using IoT. International Journal of Hyperconnectivity and the Internet of Things, 2022, 6, 1-5.	0.4	1
652	Robust Regularized Locality Preserving Indexing for Fiedler Vector Estimation. SSRN Electronic Journal, 0, , .	0.4	1
653	GSP based subsampling of IoT sensor networks. , 2022, , .		0

#	ARTICLE	IF	CITATIONS
654	Explainability in Cyber Security using Complex Network Analysis: A Brief Methodological Overview. , 2022, , .		1
655	Graph Signal Processing for IoT Sensor Networks. , 2022, , .		1
656	A Robust Latent Factor Analysis Model for Incomplete Data Recovery in Wireless Sensor Networks. , 2022, , .		3
657	Graphical designs and gale duality. Mathematical Programming, 2023, 200, 703-737.	1.6	1
658	Graph Normalized-LMP Algorithm for Signal Estimation Under Impulsive Noise. Journal of Signal Processing Systems, 2023, 95, 25-36.	1.4	4
660	Multiscale Methods for Signal Selection in Single-Cell Data. Entropy, 2022, 24, 1116.	1.1	1
661	Graph filter design by ring-decomposition for 2-connected graphs. Signal Processing, 2022, 201, 108725.	2.1	1
662	Smoothness on rank-order path graphs and its use in compressive spectral imaging with side information. Signal Processing, 2022, 201, 108707.	2.1	2
663	Task-Aware Connectivity Learning for Incoming Nodes Over Growing Graphs. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 894-906.	1.6	1
664	Structural-Constrained Methods for the Identification of False Data Injection Attacks in Power Systems. IEEE Access, 2022, 10, 94169-94185.	2.6	6
665	Wide and Deep Graph Neural Network With Distributed Online Learning. IEEE Transactions on Signal Processing, 2022, 70, 3862-3877.	3.2	18
666	Graph-Based Compression of Incomplete 3D Photoacoustic Data. Lecture Notes in Computer Science, 2022, , 560-570.	1.0	0
667	Fast Sampling and Reconstruction for Linear Inverse Problems: From Vectors to Tensors. IEEE Transactions on Signal Processing, 2022, 70, 6376-6391.	3.2	2
668	Learning to Model the Relationship Between Brain Structural and Functional Connectomes. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 830-843.	1.6	0
669	Simplicial Convolutional Filters. IEEE Transactions on Signal Processing, 2022, 70, 4633-4648.	3.2	8
670	Graph Signal Compression by Joint Quantization and Sampling. IEEE Transactions on Signal Processing, 2022, 70, 4512-4527.	3.2	6
671	Future Perspectives on Automated Machine Learning in Biomedical Signal Processing. Communications in Computer and Information Science, 2022, , 159-170.	0.4	0
672	Extended Electrophysiological Source Imaging with Spatial Graph Filters. Lecture Notes in Computer Science, 2022, , 99-109.	1.0	4

#	ARTICLE	IF	CITATIONS
673	Jointly Fusing Multi-Scale Spatial-Logical Brain Networks: A Neural Decoding Method. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 445-456.	3.9	1
674	Large Graph Signal Denoising With Application to Differential Privacy. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 788-798.	1.6	1
675	Graph-Based Learning for Leak Detection and Localisation in Water Distribution Networks*. IFAC-PapersOnLine, 2022, 55, 661-666.	0.5	7
676	RU-Net: Regularized Unrolling Network for Scene Graph Generation. , 2022, , .		11
677	Kernel-based Sampling of Graph Signals via Graph Sampling Expansion Theorem. , 2022, , .		0
678	BiGCN: A Bi-directional Low-Pass Filtering Graph Neural Network. Analysis and Applications, 0, , .	1.2	1
680	Distributed reconstruction of time-varying graph signals via a modified Newton's method. Journal of the Franklin Institute, 2022, 359, 9401-9421.	1.9	1
682	Pesticide concentration monitoring: Investigating spatio-temporal patterns in left censored data. Environmetrics, 2023, 34, .	0.6	4
683	Decomposing Twitter Graphs Based On Hashtag Trajectories: Mining And Clustering Paths Over MongoDB. , 2022, , .		0
684	A goal-driven unsupervised image segmentation method combining graph-based processing and Markov random fields. Pattern Recognition, 2023, 134, 109082.	5.1	16
685	A distributed recovery algorithm for two-dimensional graph signals. , 2022, , 103762.		0
686	Multilayer graph spectral analysis for hyperspectral images. Eurasip Journal on Advances in Signal Processing, 2022, 2022, .	1.0	5
687	A graph signal processing approach to Fourier-like number-theoretic transforms. , 2022, 131, 103761.		2
688	Topological Methods in Signal Processing. , 2020, 14, 14-25.		0
689	A Study on the Stability of Graph Edit Distance Heuristics. Electronics (Switzerland), 2022, 11, 3312.	1.8	0
690	Semi-Supervised Segmentation of Echocardiography Videos Using Graph Signal Processing. Electronics (Switzerland), 2022, 11, 3462.	1.8	4
691	Robust blind separation of smooth graph signals using minimization of graph regularized mutual information. , 2023, 132, 103792.		3
692	Hybrid Model-Based / Data-Driven Graph Transform for Image Coding. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
693	THECOG 2022 - Transforms In Behavioral And Affective Computing (Revisited). , 2022, , .		1
694	Hyperspectral image denoising and destriping based on sparse representation, graph Laplacian regularization and stripe low-rank property. Eurasip Journal on Advances in Signal Processing, 2022, 2022, .	1.0	1
695	Earthquake Location and Magnitude Estimation with Graph Neural Networks. , 2022, , .		5
696	Unrolling Graph Total Variation for Light Field Image Denoising. , 2022, , .		1
697	Interpretable temporal-spatial graph attention network for multi-site PV power forecasting. Applied Energy, 2022, 327, 120127.	5.1	14
698	pygrank: A Python package for graph node ranking. SoftwareX, 2022, 20, 101227.	1.2	1
699	Harmonic analysis on directed graphs and applications: From Fourier analysis to wavelets. Applied and Computational Harmonic Analysis, 2023, 62, 390-440.	1.1	5
700	Spatial graph convolutional neural network via structured subdomain adaptation and domain adversarial learning for bearing fault diagnosis. Neurocomputing, 2023, 517, 44-61.	3.5	27
701	Dictionary, Structured Low-Rank, and Manifold Learning-Based Reconstruction. Advances in Magnetic Resonance Technology and Applications, 2022, , 249-279.	0.0	0
702	Graph Learning-Based Cooperative Spectrum Sensing in Cognitive Radio Networks. IEEE Wireless Communications Letters, 2023, 12, 138-142.	3.2	0
703	Point Cloud Soft Multicast for Untethered XR Users. IEEE Transactions on Multimedia, 2023, 25, 7185-7195.	5.2	1
704	Graph Signal Processing for Heterogeneous Change Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-23.	2.7	7
705	Revisiting graph neural networks from hybrid regularized graph signal reconstruction. Neural Networks, 2023, 157, 444-459.	3.3	1
706	A class of doubly stochastic shift operators for random graph signals and their boundedness. Neural Networks, 2023, 158, 83-88.	3.3	1
707	Graph ensemble deep random vector functional link network for traffic forecasting. Applied Soft Computing Journal, 2022, 131, 109809.	4.1	6
708	Learning Time-Vertex Dictionaries for Estimating Time-Varying Graph Signals. , 2022, , .		0
709	Learning Graph Signal Representations with Narrowband Spectral Kernels. , 2022, , .		0
710	PUFA-GAN: A Frequency-Aware Generative Adversarial Network for 3D Point Cloud Upsampling. IEEE Transactions on Image Processing, 2022, 31, 7389-7402.	6.0	45

#	ARTICLE	IF	CITATIONS
711	Graph Federated Learning for IoT Devices in Smart Home Applications. IEEE Internet of Things Journal, 2023, 10, 7062-7079.	5.5	3
712	How Likely is a Random Network Graph Shift-Enabled?. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 973-982.	1.6	0
713	Application of Graph Learning With Multivariate Relational Representation Matrix in Vehicular Social Networks. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 2789-2799.	4.7	3
714	Kernel-based models for influence maximization on graphs based on Gaussian process variance minimization. Journal of Computational and Applied Mathematics, 2023, 423, 114951.	1.1	1
715	Untrained Graph Neural Networks for Denoising. IEEE Transactions on Signal Processing, 2022, 70, 5708-5723.	3.2	5
716	GraphReg: Dynamical Point Cloud Registration With Geometry-Aware Graph Signal Processing. IEEE Transactions on Image Processing, 2022, 31, 7449-7464.	6.0	3
717	On Local Distributions in Graph Signal Processing. IEEE Transactions on Signal Processing, 2022, 70, 5564-5577.	3.2	3
718	A Graph Diffusion Scheme for Decentralized Content Search based on Personalized PageRank. , 2022, , .		0
719	Unsupervised Graph Spectral Feature Denoising for Crop Yield Prediction. , 2022, , .		1
720	Eigenvalue-Based Block Diagonal Representation and Application to p-Nearest Neighbor Graphs. , 2022, , .		2
721	Frames for Graph Signals on the Symmetric Group: A Representation Theoretic Approach. , 2022, , .		0
722	EEG as Signal on Graph: a Multilayer Network model for BCI applications. , 2022, , .		1
723	Pruning Graph Convolutional Networks to Select Meaningful Graph Frequencies for fMRI Decoding. , 2022, , .		0
724	Learning Similarity-Preserving Representations of Brain Structure-Function Coupling. , 2022, , .		1
725	Online Graph Learning In Dynamic Environments. , 2022, , .		1
726	Porting Signal Processing from Undirected to Directed Graphs: Case Study Signal Denoising with Unrolling Networks. , 2022, , .		1
727	Multiscale Graph Scattering Transform. , 2022, , .		1
728	Multivariate permutation entropy, a Cartesian graph product approach. , 2022, , .		1



#	ARTICLE	IF	CITATIONS
729	Distributed Denoising over Simplicial Complexes using Chebyshev Polynomial Approximation. , 2022, , .		0
730	Ensemble Link Learning for Large State Space Multiple Access Communications. , 2022, , .		1
731	Time-Varying Graph Learning Under Structured Temporal Priors. , 2022, , .		3
732	Recovery of Missing Sensor Data by Reconstructing Time-varying Graph Signals. , 2022, , .		3
733	Collaborative Recognition over Distributed Underwater Acoustic Network. , 2022, , .		0
734	SemiSegPolyp: Semi-Supervised Polyp Segmentation using Graph Signals. , 2022, , .		0
735	Graph signal processing and tunicate swarm optimization based image steganography using hybrid chaotic map based image scrambling. Journal of Discrete Mathematical Sciences and Cryptography, 2022, 25, 2159-2171.	0.5	0
736	MagInfoNet: Magnitude Estimation Using Seismic Information Augmentation and Graph Transformer. Earth and Space Science, 2022, 9, .	1.1	1
737	Robust Feature Graph for Point Cloud Denoising. , 2022, , .		1
738	Structural filtering of functional data offered discriminative features for autism spectrum disorder. PLoS ONE, 2022, 17, e0277989.	1.1	0
739	Graph Learning for Attributed Graph Clustering. Mathematics, 2022, 10, 4834.	1.1	0
740	Earthquake Phase Association with Graph Neural Networks. Bulletin of the Seismological Society of America, 2023, 113, 524-547.	1.1	11
741	Generalized Graph Neural Network-Based Detection of False Data Injection Attacks in Smart Grids. IEEE Transactions on Emerging Topics in Computational Intelligence, 2023, 7, 618-630.	3.4	6
742	Contactless Real-Time Heart Rate Predicts the Performance of Elite Athletes: Evidence From Tokyo 2020 Olympic Archery Competition. Psychological Science, 2023, 34, 384-393.	1.8	1
743	Interpreting Graph-Based Sybil Detection Methods as Low-Pass Filtering. IEEE Transactions on Information Forensics and Security, 2023, 18, 1225-1236.	4.5	1
744	An outlier-robust smoothness-based graph learning approach. Signal Processing, 2023, 206, 108927.	2.1	1
745	The Effect of Graph Frequencies on Dynamic Structures in Graph Signal Processing. , 2022, , .		0
746	Diffusion of Information on Networked Lattices by Gossip. , 2022, , .		3

#	ARTICLE	IF	CITATIONS
747	Multi-target Direction-of-Arrival Estimation Method Based on Graph Signal Processing. , 2021, , .		0
748	Orthogonal Spatial-Temporal Graph Convolutional Networks for Traffic Flow Forecasting. , 2022, , .		1
749	Processing of volumetric video. , 2023, , 445-468.		0
750	Time-Domain Speech Separation Networks With Graph Encoding Auxiliary. IEEE Signal Processing Letters, 2023, 30, 110-114.	2.1	4
751	State Estimation in Partially Observable Power Systems via Graph Signal Processing Tools. Sensors, 2023, 23, 1387.	2.1	5
752	Improving the Classification Accuracy in Label-Free Flow Cytometry Using Event-Based Vision and Simple Logistic Regression. IEEE Journal of Selected Topics in Quantum Electronics, 2023, 29, 1-8.	1.9	2
753	AutoGF: Runtime Graph Filter Tuning for Community Node Ranking. Studies in Computational Intelligence, 2023, , 189-202.	0.7	0
754	Graph Theory for Brain Signal Processing. , 2023, , 2641-2669.		0
755	Learning Stochastic Graph Neural Networks With Constrained Variance. IEEE Transactions on Signal Processing, 2023, 71, 358-371.	3.2	1
756	Acquisition, representation, and rendering of omnidirectional videos. , 2023, , 27-48.		0
757	Distributed harmonic patterns of structure-function dependence orchestrate human consciousness. Communications Biology, 2023, 6, .	2.0	16
758	Joint Graph Learning and Blind Separation of Smooth Graph Signals Using Minimization of Mutual Information and Laplacian Quadratic Forms. IEEE Transactions on Signal and Information Processing Over Networks, 2023, 9, 35-47.	1.6	2
759	Graph Wedgelets: Adaptive Data Compression on Graphs Based on Binary Wedge Partitioning Trees and Geometric Wavelets. IEEE Transactions on Signal and Information Processing Over Networks, 2023, 9, 24-34.	1.6	1
760	Simplicial Trend Filtering (Invited Paper). , 2022, , .		1
761	Localizing False Data Injection Attacks in Smart Grid: A Spectrum-Based Neural Network Approach. IEEE Transactions on Smart Grid, 2023, 14, 4827-4838.	6.2	2
762	Graph Signal Processing over a Probability Space of Shift Operators. IEEE Transactions on Signal Processing, 2023, , 1-16.	3.2	1
763	Sampling of graph signals with successive aggregations based on graph fractional Fourier transform. , 2023, 136, 103970.		1
764	Rating prediction based on the graph Fourier basis and PSD estimation from the perspective of graph signal reconstruction. Expert Systems With Applications, 2023, 223, 119867.	4.4	0

#	ARTICLE	IF	CITATIONS
765	Learning Stable Graph Neural Networks via Spectral Regularization. , 2022, , .		0
766	Higher-order signal processing with the Dirac operator. , 2022, , .		0
767	Graph learning for latent-variable Gaussian graphical models under laplacian constraints. Neurocomputing, 2023, 532, 67-76.	3.5	0
768	Perfect reconstruction two-channel filter banks on arbitrary graphs. Applied and Computational Harmonic Analysis, 2023, 65, 296-321.	1.1	0
769	Distributionally Robust Graph Learning From Smooth Signals Under Moment Uncertainty. IEEE Transactions on Signal Processing, 2022, 70, 6216-6231.	3.2	2
770	Online Inference for Mixture Model of Streaming Graph Signals With Sparse Excitation. IEEE Transactions on Signal Processing, 2022, 70, 6419-6433.	3.2	1
771	Spatio-Temporal Graph Convolutional Neural Networks for Physics-Aware Grid Learning Algorithms. IEEE Transactions on Smart Grid, 2023, 14, 4086-4099.	6.2	3
772	Salt and pepper noise removal method based on graph signal reconstruction. , 2023, 135, 103941.		4
773	Exploring neural activity in inflammatory bowel diseases using functional connectivity and DKI-fMRI fusion. Behavioural Brain Research, 2023, 443, 114325.	1.2	0
774	An MMSE graph spectral magnitude estimator for speech signals residing on an undirected multiple graph. Eurasip Journal on Audio, Speech, and Music Processing, 2023, 2023, .	1.3	0
775	Measuring Segregation via Analysis on Graphs. SIAM Journal on Matrix Analysis and Applications, 2023, 44, 80-105.	0.7	0
776	Improving Your Graph Neural Networks: A High-Frequency Booster. , 2022, , .		2
777	Cooperative Path Planning of Multi-Agent Based on Graph Neural Network. , 2022, , .		0
778	Simultaneous Linear Multi-view Attributed Graph Representation Learning and Clustering. , 2023, , .		0
779	Multi-Channel Sampling on Graphs and Its Relationship to Graph Filter Banks. IEEE Open Journal of Signal Processing, 2023, 4, 148-156.	2.3	0
780	Distributed Stabilization of Signed Networks via Self-loop Compensation. IEEE Transactions on Network Science and Engineering, 2023, , 1-13.	4.1	0
781	Sound Speed Profiles Inversion by Pressure Inverted Echo Sounder and Reconstruction on Product Graph. , 2022, , .		0
782	Joint graph learning from Gaussian observations in the presence of hidden nodes. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
783	Online Filtering over Expanding Graphs. , 2022, , .		2
784	A Variable Parameter LMS Algorithm Based on Generalized Maximum Correntropy Criterion for Graph Signal Processing. IEEE Transactions on Signal and Information Processing Over Networks, 2023, 9, 140-151.	1.6	10
786	Graph Metrics Based Brain Hypergraph Learning in Schizophrenia Patients. , 2022, , .		0
787	Widely-Linear MMSE Estimation of Complex-Valued Graph Signals. IEEE Transactions on Signal Processing, 2023, 71, 1770-1785.	3.2	3
789	Convolutional Learning on Multigraphs. IEEE Transactions on Signal Processing, 2023, 71, 933-946.	3.2	3
790	Two Channel Filter Banks on Arbitrary Graphs With Positive Semi Definite Variation Operators. IEEE Transactions on Signal Processing, 2023, 71, 917-932.	3.2	1
791	A Temporal Graph Neural Network for Cyber Attack Detection and Localization in Smart Grids. , 2023, , .		8
792	Link Analysis for Solving Multiple-Access MDPs With Large State Spaces. IEEE Transactions on Signal Processing, 2023, 71, 947-962.	3.2	0
793	Estimation of Particle Location in Granular Materials Based on Graph Neural Networks. Micromachines, 2023, 14, 714.	1.4	1
794	On new PageRank computation methods using quantum computing. Quantum Information Processing, 2023, 22, .	1.0	0
795	Reconstruction of Sparse Graph Signals from Reduced Sets of Samples. , 2023, , .		1
796	Gaussian Processes on Graphs Via Spectral Kernel Learning. IEEE Transactions on Signal and Information Processing Over Networks, 2023, 9, 304-314.	1.6	0
797	Generative Versus Discriminative Data-Driven Graph Filtering of Random Graph Signals. , 2023, , .		0
798	An Eigen-decomposition Free Method for Computing Graph Fourier Transform Centrality. , 2022, , .		2
799	Graph signal processing based object classification for automotive RADAR point clouds. , 2023, 137, 104045.		2
800	Design of Matrix Filter Using Discrete Cosine Transform and Path Graph. , 2022, , .		0
801	Kernel-based Multilayer Graph Signal Recovery via Median Truncation of Gradient Descent. IEEE Transactions on Signal and Information Processing Over Networks, 2023, , 1-12.	1.6	0
802	Graph Signal Sampling Under Stochastic Priors. IEEE Transactions on Signal Processing, 2023, 71, 1421-1434.	3.2	1

#	ARTICLE	IF	CITATIONS
803	Personalized Graph Signal Processing for Collaborative Filtering. , 2023, , .		1
805	Restoration of Time-Varying Graph Signals using Deep Algorithm Unrolling. , 2023, , .		1
806	Learning Graph Laplacian from Intrinsic Patterns via Gaussian Process. , 2023, , .		0
807	TOPO-MLP : A Simplicial Network without Message Passing. , 2023, , .		0
809	Time-Varying Signals Recovery Via Graph Neural Networks. , 2023, , .		1
810	Graph Signal Processing for Narrowband Direction of Arrival Estimation. , 2023, , .		0
821	Recovery of Distributed Dynamic Bandwidth Graph Signal. , 2023, , .		0
823	Space-Time Variable Density Samplings for Sparse Bandlimited Graph Signals Driven by Diffusion Operators. , 2023, , .		0
824	Dynamic Signed Graph Learning. , 2023, , .		0
825	Topological Slepians: Maximally Localized Representations of Signals Over Simplicial Complexes. , 2023, , .		0
826	Extended Kalman Filter for Graph Signals in Nonlinear Dynamic Systems. , 2023, , .		3
827	Online Edge Flow Prediction Over Expanding Simplicial Complexes. , 2023, , .		0
828	Convolutional Filtering on Sampled Manifolds. , 2023, , .		0
829	Spatial Graph Signal Interpolation with an Application for Merging BCI Datasets with Various Dimensionalities. , 2023, , .		0
830	Higher-Order Sparse Convolutions in Graph Neural Networks. , 2023, , .		1
831	Revisit Sampling Theory of Bandlimited Graph Signals: One Bridge Between GSP and DSP. , 2023, , .		1
832	Graph Learning from Gaussian and Stationary Graph Signals. , 2023, , .		0
833	Eigen-Decomposition-Free Directed Graph Sampling via Gershgorin Disc Alignment. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
834	Topological Signal Processing Over Weighted Simplicial Complexes. , 2023, , .		0
835	Soft 2D-to-3D Delivery Using Deep Graph Neural Networks for Holographic-Type Communication. , 2023, , .		0
836	Möbius Total Variation for Directed Acyclic Graphs. , 2023, , .		1
837	Dual-Based Online Learning of Dynamic Network Topologies. , 2023, , .		0
846	A primer on graph signal processing. , 2024, , 961-1008.		0
859	Learning Directed Graphs From Data Under Structural Constraints. , 2023, , .		1
860	Disturbance Rejection for Robust Distributed Learning via Time-Vertex Filtering. , 2023, , .		0
867	Graph Fourier Transform Based Image Zero-Watermarking. , 2023, , .		0
879	Human-in-the-Loop Integration with Domain-Knowledge Graphs for Explainable Federated Deep Learning. Lecture Notes in Computer Science, 2023, , 45-64.	1.0	2
880	Brain Fingerprinting Using fMRI Spectral Signatures On High-Resolution Cortical Graphs. , 2023, , .		0
881	Fast and Robust Wind Speed Prediction Under Impulsive Noise via Adaptive Graph-Sign Diffusion. , 2023, , .		0
882	Pyramid Graph Neural Network: A Graph Sampling and Filtering Approach for Multi-scale Disentangled Representations. , 2023, , .		1
883	On Manipulating Signals of User-Item Graph: A Jacobi Polynomial-based Graph Collaborative Filtering. , 2023, , .		2
884	BASiS: Batch Aligned Spectral Embedding Space. , 2023, , .		1
887	Design of Graph Filter Using Hilbert Matrix and Vandermonde Matrix. , 2023, , .		0
892	Inductive Graph Neural Networks for Moving Object Segmentation. , 2023, , .		0
893	Realization of Digraph Filters Via Augmented GFT. , 2023, , .		0
894	Robust Graph-Based Segmentation of Noisy Point Clouds. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
895	Retinex-based Image Denoising / Contrast Enhancement Using Gradient Graph Laplacian Regularizer. , 2023, , .		0
896	Image Coding Via Perceptually Inspired Graph Learning. , 2023, , .		0
899	Online Network Source Optimization with Graph-Kernel MAB. Lecture Notes in Computer Science, 2023, , 242-258.	1.0	1
904	Invited Paper: Detection of False Data Injection Attacks in Power Systems Using a Secured-Sensors and Graph-Based Method. Lecture Notes in Computer Science, 2023, , 240-258.	1.0	0
905	Recent Advances in Bayesian Inference for Complex Systems. Women in Engineering and Science, 2023, , 85-103.	0.2	0
915	Graph Sparsification for GCN Towards Optimal Crop Yield Predictions. , 2023, , .		0
921	Joint Graph and Vertex Importance Learning. , 2023, , .		0
922	Forecasting Graph Signals with Recursive MIMO Graph Filters. , 2023, , .		0
923	Brain Fingerprinting Using EEG Graph Inference. , 2023, , .		0
924	Signed Graph Balancing with Graph Cut. , 2023, , .		0
925	Correlation-Based Graph Smoothness Measures In Graph Signal Processing. , 2023, , .		0
927	On the Optimal Recovery of Graph Signals. , 2023, , .		1
928	On Graph Uncertainty Principle and Eigenvector Delocalization. , 2023, , .		0
929	On the Impact of Sample Size in Reconstructing Graph Signals. , 2023, , .		0
931	Hierarchical Pooling Graph Convolutional Neural Network for Alzheimer's Disease Diagnosis. Lecture Notes in Computer Science, 2024, , 426-437.	1.0	0
936	Robust Learning to Learn Graph Topologies. , 2023, , .		0
939	Complex Graph Laplacian Regularizer for Inferencing Grid States. , 2023, , .		0
949	A Transferred Graph Laplacian Regularization Approach for Color Image Denoising. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
952	Comparing Spatial and Spectral Graph Filtering for Preprocessing Neurophysiological Signals. , 2023, , .		0
953	Online Directed Graph Estimation for Dynamic Network Topology Inference. , 2023, , .		0
960	Sempart: Self-supervised Multi-resolution Partitioning of Image Semantics. , 2023, , .		0
963	Network Topology Inference with Sparsity and Laplacian Constraints. , 2023, , .		0
965	Adaptive Entropy Coding of Graph Transform Coefficients for Point Cloud Attribute Compression. , 2023, , .		0
966	Anomaly Detection in Graph Signals with Canonical Correlation Analysis. , 2023, , .		0
970	Multi-Dictionary Tensor Decomposition. , 2023, , .		1
971	Learning to Identify Graphs from Node Trajectories in Multi-Robot Networks. , 2023, , .		0
973	Über die wesentlichsten Leistungsindikatoren hinaus. German Journal of Exercise and Sport Research, 0, , .	1.0	0
978	MCMC analysis for a continuous time hidden Markov autoregressive process in disease progression. AIP Conference Proceedings, 2024, , .	0.3	0
981	A graph signal processing model of the cochlea with application to cochlear implants. AIP Conference Proceedings, 2024, , .	0.3	0