Santiago Segarra

List of Publications by Year
in descending order

102 papers	**2,218** citations	430442 **18** h-index	360668 **35** g-index
105 all docs	**105** docs citations	**105** times ranked	**951** citing authors

#	Article	IF	Citations
1	Connecting the Dots: Identifying Network Structure via Graph Signal Processing. IEEE Signal Processing Magazine, 2019, 36, 16-43.	4.6	251
2	Sampling of Graph Signals With Successive Local Aggregations. IEEE Transactions on Signal Processing, 2016, 64, 1832-1843.	3.2	205
3	Optimal Graph-Filter Design and Applications to Distributed Linear Network Operators. IEEE Transactions on Signal Processing, 2017, 65, 4117-4131.	3.2	194
4	Network Topology Inference from Spectral Templates. IEEE Transactions on Signal and Information Processing Over Networks, 2017, 3, 467-483.	1.6	178
5	Stationary Graph Processes and Spectral Estimation. IEEE Transactions on Signal Processing, 2017, 65, 5911-5926.	3.2	133
6	Reconstruction of Graph Signals Through Percolation from Seeding Nodes. IEEE Transactions on Signal Processing, 2016, 64, 4363-4378.	3.2	69
7	Unfolding WMMSE Using Graph Neural Networks for Efficient Power Allocation. IEEE Transactions on Wireless Communications, 2021, 20, 6004-6017.	6.1	66
8	Stability and Continuity of Centrality Measures in Weighted Graphs. IEEE Transactions on Signal Processing, 2016, 64, 543-555.	3.2	65
9	Signal processing on higher-order networks: Livinâ€™ on the edge... and beyond. Signal Processing, 2021, 187, 108149.	2.1	60
10	Blind Identification of Graph Filters. IEEE Transactions on Signal Processing, 2017, 65, 1146-1159.	3.2	59
11	Authorship Attribution Through Function Word Adjacency Networks. IEEE Transactions on Signal Processing, 2015, 63, 5464-5478.	3.2	55
12	Attributing the Authorship of the Henry VI Plays by Word Adjacency. Shakespeare Quarterly, 2016, 67, 232-256.	0.2	48
13	Graph-based Semi-Supervised & Active Learning for Edge Flows. , 2019, , .		38
14	Centrality Measures for Graphons: Accounting for Uncertainty in Networks. IEEE Transactions on Network Science and Engineering, 2020, 7, 520-537.	4.1	34
15	Distributed implementation of linear network operators using graph filters. , 2015, , .		32
16	Network topology inference from non-stationary graph signals. , 2017, , .		32
17	Distributed Scheduling Using Graph Neural Networks. , 2021, , .		31
18	FLOW SMOOTHING AND DENOISING: GRAPH SIGNAL PROCESSING IN THE EDGE-SPACE. , 2018, , .		30

#	ARTICLE	IF	CITATIONS
19	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
20	Brain network efficiency is influenced by the pathologic source of corticobasal syndrome. Neurology, 2017, 89, 1373-1381.	1.5	27
21	Blind Community Detection From Low-Rank Excitations of a Graph Filter. IEEE Transactions on Signal Processing, 2020, 68, 436-451.	3.2	27
22	Axiomatic construction of hierarchical clustering in asymmetric networks. , 2013, , .		23
23	Stylometric analysis of Early Modern period English plays. Digital Scholarship in the Humanities, 2018, 33, 500-528.	0.4	23
24	Interpolation of graph signals using shift-invariant graph filters. , 2015, , .		22
25	Diffusion filtering of graph signals and its use in recommendation systems. , 2016, , .		21
26	HodgeNet: Graph Neural Networks for Edge Data. , 2019, , .		21
27	Network inference from consensus dynamics. , 2017, , .		20
28	Blind Identification of Stochastic Block Models from Dynamical Observations. SIAM Journal on Mathematics of Data Science, 2020, 2, 335-367.	1.0	19
29	Authorship attribution using function words adjacency networks. , 2013, , .		17
30	Joint inference of networks from stationary graph signals. , 2017, , .		17
31	Diffusion and Superposition Distances for Signals Supported on Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2015, 1, 20-32.	1.6	14
32	Center-weighted median graph filters. , 2016, , .		13
33	Hierarchical clustering of asymmetric networks. Advances in Data Analysis and Classification, 2018, 12, 65-105.	0.9	13
34	Network Inference From Consensus Dynamics With Unknown Parameters. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 300-315.	1.6	13
35	SeqScreen: accurate and sensitive functional screening of pathogenic sequences via ensemble learning. Genome Biology, 2022, 23, .	3.8	13
36	Design of weighted median graph filters. , 2017, , .		12

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37	Exact Blind Community Detection From Signals on Multiple Graphs. IEEE Transactions on Signal Processing, 2020, 68, 5016-5030.	3.2	12
38	A stable betweenness centrality measure in networks. , 2014, , .		11
39	Graph-signal reconstruction and blind deconvolution for diffused sparse inputs. , 2017, , .		11
40	Demixing and Blind Deconvolution of Graph-Diffused Sparse Signals. , 2018, , .		11
41	Efficient Power Allocation Using Graph Neural Networks and Deep Algorithm Unfolding. , 2021, , .		11
42	Network topology identification from spectral templates. , 2016, , .		9
43	ML-aided power allocation for Tactical MIMO. , 2021, , .		9
44	Blind identification of graph filters with sparse inputs. , 2015, , .		8
45	Community Detection from Low-Rank Excitations of a Graph Filter. , 2018, , .		8
46	Blind Inference of Centrality Rankings from Graph Signals. , 2020, , .		8
47	Estimating Network Processes via Blind Identification of Multiple Graph Filters. IEEE Transactions on Signal Processing, 2020, , 1-1.	3.2	8
48	Blind Inference of Eigenvector Centrality Rankings. IEEE Transactions on Signal Processing, 2021, 69, 3935-3946.	3.2	8
49	ENHANCING GEOMETRIC DEEP LEARNING VIA GRAPH FILTER DECONVOLUTION. , 2018, , .		7
50	An Underparametrized Deep Decoder Architecture for Graph Signals. , 2019, , .		7
51	Sampling of graph signals: Successive local aggregations at a single node. , 2015, , .		6
52	Stability and continuity of centrality measures in weighted graphs. , 2015, , .		6
53	Stationary graph processes: Nonparametric spectral estimation. , 2016, , .		6
54	A Response to Pervez Rizviâ€™s Critique of the Word Adjacency Method for Authorship Attribution. ANQ-a Quarterly Journal of Short Articles Notes and Reviews, 2020, 33, 332-337.	0.1	6

#	Article	IF	Citations
55	Hierarchical clustering methods and algorithms for asymmetric networks. , 2013, , .		5
56	Linear network operators using node-variant graph filters. , 2016, , .		5
57	Network Topology Inference From Input-Output Diffusion Pairs. , 2018, , .		5
58	DIRECTED NETWORK TOPOLOGY INFERENCE VIA GRAPH FILTER IDENTIFICATION. , 2018, , .		5
59	Statistical Graph Signal Processing: Stationarity and Spectral Estimation. , 2018, , 325-347.		5
60	Inference of Graph Topology. , 2018, , 349-374.		5
61	Spectral Partitioning of Time-varying Networks with Unobserved Edges. , 2019, , .		5
62	Identifying the Topology of Undirected Networks From Diffused Non-Stationary Graph Signals. IEEE Open Journal of Signal Processing, 2021, 2, 171-189.	2.3	5
63	Signal Processing onÂSimplicial Complexes. Understanding Complex Systems, 2022, , 301-328.	0.3	5
64	Joint Inference of Multiple Graphs with Hidden Variables from Stationary Graph Signals. , 2022, , .		5
65	Reconstruction of graph signals: Percolation from a single seeding node. , 2015, , .		4
66	Network topology identification from imperfect spectral templates. , 2016, , .		4
67	Blind identification of graph filters with multiple sparse inputs. , 2016, , .		4
68	Admissible Hierarchical Clustering Methods and Algorithms for Asymmetric Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2017, 3, 711-727.	1.6	4
69	How the Word Adjacency Network (WAN) works. Digital Scholarship in the Humanities, 2022, 37, 321-335.	0.4	4
70	The Dual Graph Shift Operator: Identifying the Support of the Frequency Domain. Journal of Fourier Analysis and Applications, 2021, 27, 1.	0.5	4
71	Network Topology Inference with Graphon Spectral Penalties. , 2021, , .		4
72	Graph-signal Reconstruction and Blind Deconvolution for Structured Inputs. Signal Processing, 2021, 188, 108180.	2.1	4

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73	Automated detection of activity onset after postictal generalized EEG suppression. BMC Medical Informatics and Decision Making, 2020, 20, 327.	1.5	4
74	Power Allocation for Wireless Federated Learning Using Graph Neural Networks. , 2022, , .		4
75	Dithering and betweenness centrality in weighted graphs. , 2014, , .		3
76	Estimation of Network Processes via Blind Graph Multi-filter Identification. , 2019, , .		3
77	Generative Adversarial Networks for Graph Data Imputation from Signed Observations. , 2020, , .		3
78	Network Topology Change-Point Detection from Graph Signals with Prior Spectral Signatures. , 2021, , .		3
79	A Robust Alternative for Graph Convolutional Neural Networks via Graph Neighborhood Filters. , 2021, , .		3
80	Unrolling Particles: Unsupervised Learning of Sampling Distributions. , 2022, , .		3
81	Alternative axiomatic constructions for hierarchical clustering of asymmetric networks. , 2013, , .		2
82	Aggregation sampling of graph signals in the presence of noise. , 2015, , .		2
83	Diffusion distance for signals supported on networks. , 2015, , .		2
84	Overlapping clustering of network data using cut metrics. , 2016, , .		2
85	Robust network topology inference. , 2017, , .		2
86	Hierarchical Overlapping Clustering of Network Data Using Cut Metrics. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 392-406.	1.6	2
87	Neural Network Architectures for Electricity Consumption Forecasting. , 2019, , .		2
88	A Response to Rosalind Barberâ€™s Critique of the Word Adjacency Method for Authorship Attribution. ANQ-a Quarterly Journal of Short Articles Notes and Reviews, 2021, 34, 291-296.	0.1	2
89	Robust Hierarchical Clustering for Directed Networks: An Axiomatic Approach. SIAM Journal on Applied Algebra and Geometry, 2021, 5, 675-700.	0.9	2
90	Label Propagation Across Graphs: Node Classification Using Graph Neural Tangent Kernels. , 2022, , .		2

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91	Hypergraphs with Edge-Dependent Vertex Weights: Spectral Clustering Based on the 1-Laplacian. , 2022, , .		2
92	Hierarchical clustering and consensus in trust networks. , 2013, , .		1
93	Stationary graph processes: Parametric power spectral estimation. , 2017, , .		1
94	Energy-Efficient Power Allocation in Wireless Networks using Graph Neural Networks. , 2021, , .		1
95	Graphon-Aided Joint Estimation of Multiple Graphs. , 2022, , .		1
96	Stability Analysis of Unfolded WMMSE for Power Allocation. , 2022, , .		1
97	Space-shift sampling of graph signals. , 2016, , .		0
98	Identifying Undirected Network Structure via Semidefinite Relaxation. , 2018, , .		0
99	Metric Representations of Networks: A Uniqueness Result. , 2020, , .		0
100	Representable Hierarchical Clustering Methods for Asymmetric Networks. Studies in Classification, Data Analysis, and Knowledge Organization, 2017, , 83-95.	0.1	0
101	Blind Estimation of Eigenvector Centrality from Graph Signals: Beyond Low-pass Filtering. , 2020, , .		0
102	Node Embedding based on the Free Energy Distance. , 2021, , .		0