Anna Scaglione

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

156 papers	3,203 citations	27 h-index	51 g-index
184 ext. papers	3,915 ext. citations	5.9 avg, IF	5.77 L-index

#	Paper	IF	Citations
156	Gossip Algorithms for Distributed Signal Processing. *Proceedings of the IEEE*, **2010**, 98, 1847-1864	14.3	530
155	Distributed Constrained Optimization by Consensus-Based Primal-Dual Perturbation Method. *IEEE Transactions on Automatic Control*, **2014**, 59, 1524-1538	5.9	221
154	. *IEEE Transactions on Smart Grid*, **2010**, 1, 28-39	10.7	161
153	. *IEEE Transactions on Smart Grid*, **2013**, 4, 1490-1504	10.7	101
152	. *IEEE Transactions on Smart Grid*, **2014**, 5, 848-860	10.7	83
151	Electrical centrality measures for electric power grid vulnerability analysis **2010**,		81
150	Optimal Pricing to Manage Electric Vehicles in Coupled Power and Transportation Networks. *IEEE Transactions on Control of Network Systems*, **2017**, 4, 863-875	4	76
149	. *IEEE Signal Processing Magazine*, **2012**, 29, 55-67	9.4	73
148	. *IEEE Journal on Selected Areas in Communications*, **2013**, 31, 1072-1083	14.2	69
147	Anomaly Detection Using Optimally Placed $mu text{PMU}$ Sensors in Distribution Grids. *IEEE Transactions on Power Systems*, **2018**, 33, 3611-3623	7	62
146	Scalable Network Synchronization with Pulse-Coupled Oscillators. *IEEE Transactions on Mobile Computing*, **2011**, 10, 392-405	4.6	58
145	A Markov-Transition Model for Cascading Failures in Power Grids **2012**,		56
144	LayBack: SDN Management of Multi-Access Edge Computing (MEC) for Network Access Services and Radio Resource Sharing. *IEEE Access*, **2018**, 6, 57545-57561	3.5	52
143	. *IEEE Journal on Selected Areas in Communications*, **2012**, 30, 1027-1036	14.2	50
142	Distributed Principal Subspace Estimation in Wireless Sensor Networks. *IEEE Journal on Selected Topics in Signal Processing*, **2011**, 5, 725-738	7.5	49
141	Bio-inspired algorithms for decentralized round-robin and proportional fair scheduling. *IEEE Journal on Selected Areas in Communications*, **2010**, 28, 564-575	14.2	47
140	On the Interdependence of Routing and Data Compression in Multi-Hop Sensor Networks. *Wireless Networks*, **2005**, 11, 149-160	2.5	47

139	. *IEEE Journal on Selected Areas in Communications*, **2013**, 31, 1184-1194	14.2	44
138	Models for the Diffusion of Beliefs in Social Networks: An Overview. *IEEE Signal Processing Magazine*, **2013**, 30, 16-29	9.4	42
137	Coding With Side Information for Rate-Constrained Consensus. *IEEE Transactions on Signal Processing*, **2008**, 56, 3753-3764	4.8	41
136	. *IEEE Transactions on Signal and Information Processing Over Networks*, **2016**, 2, 406-419	2.8	40
135	Unit Commitment With Continuous-Time Generation and Ramping Trajectory Models. *IEEE Transactions on Power Systems*, **2016**, 31, 3169-3178	7	40
134	. *IEEE Transactions on Power Systems*, **2015**, 30, 1758-1774	7	33
133	. *IEEE Transactions on Signal Processing*, **2011**, 59, 4225-4237	4.8	32
132	Blind topology identification for power systems **2013**,		31
131	The decentralized estimation of the sample covariance **2008**,		31
130	. *IEEE Transactions on Automatic Control*, **2017**, 62, 5522-5537	5.9	30
129	A Framework for Phasor Measurement Placement in Hybrid State Estimation Via Gauss□Newton. *IEEE Transactions on Power Systems*, **2014**, 29, 824-832	7	26
128	Micro Synchrophasor-Based Intrusion Detection in Automated Distribution Systems: Toward Critical Infrastructure Security. *IEEE Internet Computing*, **2016**, 20, 18-27	2.4	25
127	. *IEEE Transactions on Signal Processing*, **2013**, 61, 5231-5246	4.8	24
126	Randomized cooperation in asynchronous dispersive links. *IEEE Transactions on Communications*, **2009**, 57, 64-68	6.9	24
125	. *IEEE Journal on Selected Topics in Signal Processing*, **2014**, 8, 1111-1126	7.5	23
124	The Restless Multi-Armed Bandit Formulation of the Cognitive Compressive Sensing Problem. *IEEE Transactions on Signal Processing*, **2015**, 63, 1183-1198	4.8	22
123	. *IEEE Transactions on Signal and Information Processing Over Networks*, **2016**, 1-1	2.8	22
122	Hybrid Control Network Intrusion Detection Systems for Automated Power Distribution Systems **2014**,		21

121	STiCMAC: A MAC Protocol for Robust Space-Time Coding in Cooperative Wireless LANs. *IEEE Transactions on Wireless Communications*, **2012**, 11, 1358-1369	9.6	21
120	The Node Degree Distribution in Power Grid and Its Topology Robustness under Random and Selective Node Removals **2010**,		20
119	Automated Generation Algorithm for Synthetic Medium Voltage Radial Distribution Systems. *IEEE Journal on Emerging and Selected Topics in Circuits and Systems*, **2017**, 7, 271-284	5.2	19
118	An Amplify-and-Forward Scheme for Spectrum Sharing in Cognitive Radio Channels. *IEEE Transactions on Wireless Communications*, **2015**, 14, 5629-5642	9.6	19
117	A Metric-Based Validation Process to Assess the Realism of Synthetic Power Grids. *Energies*, **2017**, 10, 1233	3.1	19
116	Generation Ramping Valuation in Day-Ahead Electricity Markets **2016**,		19
115	How will demand response aggregators affect electricity markets? A Cournot game analysis **2012**,		19
114	Cooperative Randomized MIMO-OFDM Downlink for Multicell Networks: Design and Analysis. *IEEE Transactions on Signal Processing*, **2010**, 58, 384-402	4.8	19
113	PulseSS: A Pulse-Coupled Synchronization and Scheduling Protocol for Clustered Wireless Sensor Networks. *IEEE Internet of Things Journal*, **2016**, 3, 1222-1234	10.7	18
112	A Simple Recruitment Scheme of Multiple Nodes for Cooperative MAC. *IEEE Transactions on Communications*, **2010**, 58, 2667-2682	6.9	18
111	Broadcast gossip algorithms: Design and analysis for consensus **2008**,		18
110	Transmitting Important Bits and Sailing High Radio Waves: A Decentralized Cross-Layer Approach to Cooperative Video Transmission. *IEEE Journal on Selected Areas in Communications*, **2012**, 30, 1597-1604	14.2	17
109	. *IEEE Transactions on Wireless Communications*, **2011**, 10, 4214-4225	9.6	16
108	**2010**,		16
107	Continuous Time Multi-Stage Stochastic Unit Commitment With Storage. *IEEE Transactions on Power Systems*, **2019**, 34, 4476-4489	7	15
106	On the impact of SmartGrid metering infrastructure on load forecasting **2010**,		15
105	Randomized space-time block coding for distributed amplify-and-forward cooperative relays **2010**,		15
104	Information infrastructure for cellular load management in green power delivery systems **2011**,		15

103	Phasor Measurement Units Optimal Placement and Performance Limits for Fault Localization. *IEEE Journal on Selected Areas in Communications*, **2020**, 38, 180-192	14.2	15
102	A hybrid network IDS for protective digital relays in the power transmission grid **2014**,		14
101	Cooperative MAC for Rate Adaptive Randomized Distributed Space-Time Coding **2008**,		14
100	Restless multi-armed bandits under time-varying activation constraints for dynamic spectrum access **2014**,		13
99	Computing Along Routes via Gossiping. *IEEE Transactions on Signal Processing*, **2010**, 58, 3313-3327	4.8	13
98	Broadcast gossip algorithms **2008**,		13
97	A Dynamic Multistage Stochastic Unit Commitment Formulation for Intraday Markets. *IEEE Transactions on Power Systems*, **2018**, 33, 3653-3663	7	13
96	A consensus-based decentralized algorithm for non-convex optimization with application to dictionary learning **2015**,		12
95	A Multi-Layer Multi-Timescale Network Utility Maximization Framework for the SDN-Based LayBack Architecture Enabling Wireless Backhaul Resource Sharing. *Electronics (Switzerland)*, **2019**, 8, 937	2.6	12
94	Blind Community Detection From Low-Rank Excitations of a Graph Filter. *IEEE Transactions on Signal Processing*, **2020**, 68, 436-451	4.8	12
93	. *IEEE Signal Processing Magazine*, **2020**, 37, 74-85	9.4	11
92	Joint Network Topology and Dynamics Recovery From Perturbed Stationary Points. *IEEE Transactions on Signal Processing*, **2019**, 67, 4582-4596	4.8	11
91	Monitoring Security of Networked Control Systems: It's the Physics. *IEEE Security and Privacy*, **2014**, 12, 32-39	2	11
90	Grid integration of distributed renewables through coordinated demand response **2012**,		10
89	Detection of False Data Injection Attack Using Graph Signal Processing for the Power Grid **2019**,		10
88	On the Communication Architecture for Wide-Area Real-Time Monitoring in Power Networks **2007**,		9
87	Grid-Graph Signal Processing (Grid-GSP): A Graph Signal Processing Framework for the Power Grid. *IEEE Transactions on Signal Processing*, **2021**, 69, 2725-2739	4.8	9
86	Estimating Social Opinion Dynamics Models From Voting Records. *IEEE Transactions on Signal Processing*, **2018**, 66, 4193-4206	4.8	8

85	Detection of data injection attacks in decentralized learning **2015**,		8
84	Compressive Link Acquisition in Multiuser Communications. *IEEE Transactions on Signal Processing*, **2013**, 61, 3229-3245	4.8	8
83	Estimation of sparse multipath channels **2008**,		8
82	A scalable wireless communication architecture for average consensus **2007**,		8
81	Differential Nested Lattice Encoding for Consensus Problems **2007**,		8
80	Multi-Layer Decomposition of Network Utility Maximization Problems. *IEEE/ACM Transactions on Networking*, **2020**, 28, 2077-2091	3.8	8
79	A Model for Joint Probabilistic Forecast of Solar Photovoltaic Power and Outdoor Temperature. *IEEE Transactions on Signal Processing*, **2019**, 67, 6368-6383	4.8	8
78	Utility Maximizing Sequential Sensing Over a Finite Horizon. *IEEE Transactions on Signal Processing*, **2017**, 65, 3430-3445	4.8	7
77	On Modeling Voltage Phasor Measurements as Graph Signals **2019**,		7
76	Consensus on State and Time: Decentralized Regression With Asynchronous Sampling. *IEEE Transactions on Signal Processing*, **2015**, 63, 2972-2985	4.8	7
75	Machine Learning From Distributed, Streaming Data [From the Guest Editors]. *IEEE Signal Processing Magazine*, **2020**, 37, 11-13	9.4	7
74	Optimal sensor placement for hybrid state estimation in smart grid **2013**,		7
73	Asymmetric information diffusion via gossiping on static and dynamic networks **2010**,		7
72	Distributed Randomized Space-Time Coding for HF Transmission **2006**,		7
71	Learning Behavior of Distribution System Discrete Control Devices for Cyber-Physical Security. *IEEE Transactions on Smart Grid*, **2020**, 11, 749-761	10.7	7
70	. *IEEE Transactions on Signal Processing*, **2018**, 66, 3280-3295	4.8	6
69	A projection-free decentralized algorithm for non-convex optimization **2016**,		6
68	Fast and privacy preserving distributed low-rank regression **2017**,		6

67	Decentralized space-time block coding for two-way relay networks **2010**,		6
66	. *IEEE Transactions on Signal Processing*, **2011**, 59, 2982-2988	4.8	6
65	Scalable distributed Kalman filtering through consensus. *Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing*, **2008**,	1.6	6
64	A Case of Distributed Optimization in Adversarial Environment **2019**,		5
63	An amplify-and-forward scheme for cognitive radios **2014**,		5
62	The Cognitive Compressive Sensing problem **2014**,		5
61	On Modeling and Marketing the Demand Flexibility of Deferrable Loads at the Wholesale Level **2013**,		5
60	Advances in decentralized state estimation for power systems **2013**,		5
59	Physical layer design of distributed proportional fair scheduling in wireless body area networks **2010**,		5
58	Trust, opinion diffusion and radicalization in social networks **2011**,		5
57	Pulse coupled oscillatorsSprimitive for low complexity scheduling **2009**,		5
56	A Framework for Generating Synthetic Distribution Feeders using OpenStreetMap **2019**,		5
55	SUCAG: Stochastic Unbiased Curvature-aided Gradient Method for Distributed Optimization **2018**,		5
54	**2019**,		4
53	The Impact of Random Actions on Opinion Dynamics. *IEEE Transactions on Signal and Information Processing Over Networks*, **2018**, 4, 576-584	2.8	4
52	A Mathematical Programming Solution for Automatic Generation of Synthetic Power Flow Cases. *IEEE Transactions on Power Systems*, **2019**, 34, 729-741	7	4
51	Curvature-aided incremental aggregated gradient method **2017**,		4
50	The social system identification problem **2015**,		4

49	Distributed sparse regression by consensus-based primal-dual perturbation optimization **2013**,		4
48	Limiting rate behavior and rate allocation strategies for average consensus problems with bounded convergence. *Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing*, **2008**,	1.6	4
47	Lyapunov stability of smart inverters using linearized distflow approximation. *IET Renewable Power Generation*, **2021**, 15, 114-126	2.9	4
46	Gas and Electric Grid Unit Commitment with Coordinated N-1 Generator Contingency Analysis **2018** ,		4
45	Accelerating incremental gradient optimization with curvature information. *Computational Optimization and Applications*, **2020**, 76, 347-380	1.4	3
44	The pulse coupled phasor measurement units **2014**,		3
43	A Cournot game analysis on market effects of queuing energy request as demand response **2012**,		3
42	Pulse Coupled Discrete Oscillators dynamics for network scheduling **2012**,		3
41	Low complexity acquisition of GPS signals **2011**,		3
40	Layered randomized cooperation for multicast **2008**,		3
39	Time-varying power line block transmission models over doubly selective channels **2008**,		3
38	Lossy DistFlow Formulation for Single and Multiphase Radial Feeders. *IEEE Transactions on Power Systems*, **2020**, 35, 1758-1768	7	3
37	Multi-layer Decomposition of Optimal Resource Sharing Problems **2018**,		3
36	Continuous Time Multi-Stage Stochastic Reserve and Unit Commitment **2018**,		3
35	Caching for distributed parameter estimation in wireless sensor networks **2017**,		2
34	Convergence Results on Pulse Coupled Oscillator Protocols in Locally Connected Networks. *IEEE/ACM Transactions on Networking*, **2017**, 25, 1004-1019	3.8	2
33	PulseSS: A microcontroller implementation of Pulse-coupled Scheduling and Synchronization protocol for cluster-based wireless sensor networks **2015**,		2
32	Coordinated home energy management for real-time power balancing **2012**,		2

31	The emergence of deferrable energy requests and a greener future: What stands in the way? **2012**,		2
30	A course on smartgrid networks **2012**,		2
29	Computing along the routes via gossiping **2009**,		2
28	Sequential source coding with side information for sensor networks **2007**,		2
27	On the Asymptotic Scalability of the Consensus Algorithm **2007**,		2
26	Federated Network Utility Maximization **2020**,		2
25	Data mining the underlying trust in the US Congress **2016**,		2
24	Identifying Susceptible Agents in Time Varying Opinion Dynamics Through Compressive Measurements **2018**,		2
23	An Active Sequential Xampling Detector for Spectrum Sensing. *IEEE Transactions on Cognitive Communications and Networking*, **2018**, 4, 192-205	6.6	1
22	Robust collaborative state estimation for smart grid monitoring **2013**,		1
21	Online Thevenin parameter tracking using synchrophasor data **2017**,		1
20	Identifying trust in social networks with stubborn agents, with application to market decisions **2015** ,		1
19	Decentralized regression with asynchronous sub-Nyquist sampling **2014**,		1
18	Strategic communications in opinion diffusion **2012**,		1
17	Compressed channel sensing: Is the Restricted Isometry Property the right metric? **2011**,		1
16	Design of a Distributed Protocol for Proportional Fairness in Wireless Body Area Networks **2010**,		1
15	Maximum likelihood blind deconvolution for sparse systems **2010**,		1
14	A Decentralized Cross-Layer Approach to Cooperative Video Transmission **2011**,		1

13	Group Testing for Binary Markov Sources: Data-Driven Group Queries for Cooperative Sensor Networks. *IEEE Transactions on Information Theory*, **2008**, 54, 3538-3551	2.8	1
12	Integrating Hardware Security into a Blockchain-Based Transactive Energy Platform **2021**,		1
11	Continuous-time marginal pricing of power trajectories in power systems **2016**,		1
10	. *IEEE Transactions on Signal Processing*, **2011**, 59, 5353-5368	4.8	0
9	Federated Edge Network Utility Maximization for a Multi-Server System: Algorithm and Convergence. *IEEE/ACM Transactions on Networking*, **2022**, 1-16	3.8	0
8	Log(v) 3LPF: A Linear Power Flow Formulation for Unbalanced Three-Phase Distribution Systems. *IEEE Transactions on Power Systems*, **2022**, 1-1	7	0
7	. *IEEE Transactions on Communications*, **2012**, 60, 1020-1032	6.9	
6	A simple and scalable algorithm for alignment in broadcast networks. *IEEE Journal on Selected Areas in Communications*, **2010**, 28, 1190-1199	14.2	
5	. *Journal of Communications and Networks*, **2010**, 12, 317-329	4.1	
4	Adaptive Control of Distributed Energy Resources for Distribution Grid Voltage Stability. *IEEE Transactions on Power Systems*, **2022**, 1-1	7	
3	Community Inference from Partially Observed Graph Signals: Algorithms and Analysis. *IEEE Transactions on Signal Processing*, **2022**, 1-1	4.8	
2	Efficient Caching by Linear Compression for Parameter Estimation in Wireless Sensor Networks. *IEEE Transactions on Signal Processing*, **2022**, 70, 1155-1169	4.8	
1	Randomized Cooperative Transmission in Large-Scale Sensor Networks251-275		