

Oswaldo Simeone

List of Publications by Year in descending order

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364
papers

13,009
citations

50170

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30010

103
g-index

366
all docs

366
docs citations

366
times ranked

8130
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-Cell MIMO Cooperative Networks: A New Look at Interference. IEEE Journal on Selected Areas in Communications, 2010, 28, 1380-1408.	9.7	1,394
2	Energy Harvesting Wireless Communications: A Review of Recent Advances. IEEE Journal on Selected Areas in Communications, 2015, 33, 360-381.	9.7	777
3	Mobile Edge Computing via a UAV-Mounted Cloudlet: Optimization of Bit Allocation and Path Planning. IEEE Transactions on Vehicular Technology, 2018, 67, 2049-2063.	3.9	597
4	5G Wireless Network Slicing for eMBB, URLLC, and mMTC: A Communication-Theoretic View. IEEE Access, 2018, 6, 55765-55779.	2.6	582
5	Spectrum Leasing to Cooperating Secondary Ad Hoc Networks. IEEE Journal on Selected Areas in Communications, 2008, 26, 203-213.	9.7	502
6	Reconfigurable Intelligent Surfaces vs. Relaying: Differences, Similarities, and Performance Comparison. IEEE Open Journal of the Communications Society, 2020, 1, 798-807.	4.4	445
7	A Very Brief Introduction to Machine Learning With Applications to Communication Systems. IEEE Transactions on Cognitive Communications and Networking, 2018, 4, 648-664.	4.9	329
8	Stable Throughput of Cognitive Radios With and Without Relaying Capability. IEEE Transactions on Communications, 2007, 55, 2351-2360.	4.9	314
9	Energy-Efficient Resource Allocation for Mobile Edge Computing-Based Augmented Reality Applications. IEEE Wireless Communications Letters, 2017, 6, 398-401.	3.2	279
10	Joint Precoding and Multivariate Backhaul Compression for the Downlink of Cloud Radio Access Networks. IEEE Transactions on Signal Processing, 2013, 61, 5646-5658.	3.2	270
11	Robust and Efficient Distributed Compression for Cloud Radio Access Networks. IEEE Transactions on Vehicular Technology, 2013, 62, 692-703.	3.9	238
12	Distributed synchronization in wireless networks. IEEE Signal Processing Magazine, 2008, 25, 81-97.	4.6	214
13	Fronthaul Compression for Cloud Radio Access Networks: Signal processing advances inspired by network information theory. IEEE Signal Processing Magazine, 2014, 31, 69-79.	4.6	181
14	Pilot-Based Channel Estimation for OFDM Systems by Tracking the Delay-Subspace. IEEE Transactions on Wireless Communications, 2004, 3, 315-325.	6.1	176
15	Joint Optimization of Cloud and Edge Processing for Fog Radio Access Networks. IEEE Transactions on Wireless Communications, 2016, 15, 7621-7632.	6.1	172
16	On the Transfer of Information and Energy in Multi-User Systems. IEEE Communications Letters, 2012, 16, 1733-1736.	2.5	159
17	Cloud radio access network: Virtualizing wireless access for dense heterogeneous systems. Journal of Communications and Networks, 2016, 18, 135-149.	1.8	152
18	Memristorsâ€”From Inâ€”Memory Computing, Deep Learning Acceleration, and Spiking Neural Networks to the Future of Neuromorphic and Bioâ€”Inspired Computing. Advanced Intelligent Systems, 2020, 2, 2000085.	3.3	143

#	ARTICLE	IF	CITATIONS
19	Downlink Multicell Processing with Limited-Backhaul Capacity. Eurasip Journal on Advances in Signal Processing, 2009, 2009, .	1.0	132
20	Cooperative Multicell Zero-Forcing Beamforming in Cellular Downlink Channels. IEEE Transactions on Information Theory, 2009, 55, 3206-3219.	1.5	123
21	Medium Access Control Protocols for Wireless Sensor Networks with Energy Harvesting. IEEE Transactions on Communications, 2012, 60, 1381-1389.	4.9	123
22	Local Base Station Cooperation Via Finite-Capacity Links for the Uplink of Linear Cellular Networks. IEEE Transactions on Information Theory, 2009, 55, 190-204.	1.5	122
23	Robust Layered Transmission and Compression for Distributed Uplink Reception in Cloud Radio Access Networks. IEEE Transactions on Vehicular Technology, 2014, 63, 204-216.	3.9	117
24	Privacy for Free: Wireless Federated Learning via Uncoded Transmission With Adaptive Power Control. IEEE Journal on Selected Areas in Communications, 2021, 39, 170-185.	9.7	117
25	Fog-Aided Wireless Networks for Content Delivery: Fundamental Latency Tradeoffs. IEEE Transactions on Information Theory, 2017, 63, 6650-6678.	1.5	114
26	Harnessing cloud and edge synergies: toward an information theory of fog radio access networks. , 2016, 54, 44-50.		100
27	Interactive Joint Transfer of Energy and Information. IEEE Transactions on Communications, 2013, 61, 2086-2097.	4.9	91
28	Cooperation and Cognitive Radio. , 2007, , .		89
29	Distributed Time Synchronization in Wireless Sensor Networks with Coupled Discrete-Time Oscillators. Eurasip Journal on Wireless Communications and Networking, 2007, 2007, 1.	1.5	85
30	Energy efficiency of non-collaborative and collaborative Hybrid-ARQ protocols. IEEE Transactions on Wireless Communications, 2009, 8, 326-335.	6.1	85
31	Reliable Transmission of Short Packets Through Queues and Noisy Channels Under Latency and Peak-Age Violation Guarantees. IEEE Journal on Selected Areas in Communications, 2019, 37, 721-734.	9.7	83
32	Cloud-aided wireless networks with edge caching: Fundamental latency trade-offs in fog Radio Access Networks. , 2016, , .		79
33	LDM Versus FDM/TDM for Unequal Error Protection in Terrestrial Broadcasting Systems: An Information-Theoretic View. IEEE Transactions on Broadcasting, 2015, 61, 571-579.	2.5	76
34	Cache aided wireless networks: Tradeoffs between storage and latency. , 2016, , .		68
35	A Brief Introduction to Machine Learning for Engineers. Foundations and Trends in Signal Processing, 2018, 12, 200-431.	12.0	65
36	Online Edge Caching and Wireless Delivery in Fog-Aided Networks With Dynamic Content Popularity. IEEE Journal on Selected Areas in Communications, 2018, 36, 1189-1202.	9.7	64

#	ARTICLE	IF	CITATIONS
37	Cooperative Wireless Cellular Systems: An Information-Theoretic View. Foundations and Trends in Communications and Information Theory, 2011, 8, 1-177.	2.4	62
38	Wireless Federated Distillation for Distributed Edge Learning with Heterogeneous Data. , 2019, , .		62
39	Mobile cloud computing with a UAV-mounted cloudlet: optimal bit allocation for communication and computation. IET Communications, 2017, 11, 969-974.	1.5	60
40	Cooperative ARQ via auction-based spectrum leasing. IEEE Transactions on Communications, 2010, 58, 1843-1856.	4.9	58
41	CTH11-2: Distributed Multi-Cell Zero-Forcing Beamforming in Cellular Downlink Channels. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	57
42	Compound Multiple-Access Channels With Partial Cooperation. IEEE Transactions on Information Theory, 2009, 55, 2425-2441.	1.5	56
43	Private and Secure Distributed Matrix Multiplication With Flexible Communication Load. IEEE Transactions on Information Forensics and Security, 2020, 15, 2722-2734.	4.5	55
44	Learning to Demodulate From Few Pilots via Offline and Online Meta-Learning. IEEE Transactions on Signal Processing, 2021, 69, 226-239.	3.2	54
45	Joint Decompression and Decoding for Cloud Radio Access Networks. IEEE Signal Processing Letters, 2013, 20, 503-506.	2.1	52
46	An Introduction to Probabilistic Spiking Neural Networks: Probabilistic Models, Learning Rules, and Applications. IEEE Signal Processing Magazine, 2019, 36, 64-77.	4.6	51
47	Semantic-Effectiveness Filtering and Control for Post-5G Wireless Connectivity. Journal of the Indian Institute of Science, 2020, 100, 435-443.	0.9	51
48	Full-Duplex Cloud Radio Access Networks: An Information-Theoretic Viewpoint. IEEE Wireless Communications Letters, 2014, 3, 413-416.	3.2	49
49	Dynamic Compression-Transmission for Energy-Harvesting Multihop Networks With Correlated Sources. IEEE/ACM Transactions on Networking, 2014, 22, 1729-1741.	2.6	47
50	Joint Signal and Channel State Information Compression for the Backhaul of Uplink Network MIMO Systems. IEEE Transactions on Wireless Communications, 2014, 13, 1555-1567.	6.1	47
51	Beamforming Design for Joint Localization and Data Transmission in Distributed Antenna System. IEEE Transactions on Vehicular Technology, 2015, 64, 62-76.	3.9	47
52	Decentralized Federated Learning via SGD over Wireless D2D Networks. , 2020, , .		47
53	Interference channel with a relay: Models, relaying strategies, bounds. , 2009, , .		46
54	Joint Uplink/Downlink Optimization for Backhaul-Limited Mobile Cloud Computing With User Scheduling. IEEE Transactions on Signal and Information Processing Over Networks, 2017, 3, 787-802.	1.6	46

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55	Multislot estimation of fast-varying space-time communication channels. IEEE Transactions on Signal Processing, 2003, 51, 1184-1195.	3.2	44
56	Detecting the Number of Transmit Antennas with Unauthorized or Cognitive Receivers in MIMO Systems. , 2007, , .		44
57	Joint optimization of cloud and edge processing for fog radio access networks. , 2016, , .		44
58	Robust Transmission and Interference Management For Femtocells with Unreliable Network Access. IEEE Journal on Selected Areas in Communications, 2010, 28, 1469-1478.	9.7	43
59	Femtocell as a Relay: An Outage Analysis. IEEE Transactions on Wireless Communications, 2011, 10, 4204-4213.	6.1	43
60	Energy Management Policies for Energy-Neutral Source-Channel Coding. IEEE Transactions on Communications, 2012, 60, 2668-2678.	4.9	43
61	Linear Precoding and Equalization for Network MIMO With Partial Cooperation. IEEE Transactions on Vehicular Technology, 2012, 61, 2083-2096.	3.9	43
62	Constrained Codes for Joint Energy and Information Transfer. IEEE Transactions on Communications, 2014, 62, 2121-2131.	4.9	42
63	From Learning to Meta-Learning: Reduced Training Overhead and Complexity for Communication Systems. , 2020, , .		42
64	Fronthaul Compression and Precoding Design for C-RANs Over Ergodic Fading Channels. IEEE Transactions on Vehicular Technology, 2016, 65, 5022-5032.	3.9	41
65	Channel Estimation for MIMO-OFDM Systems by Modal Analysis/Filtering. IEEE Transactions on Communications, 2006, 54, 2062-2074.	4.9	40
66	Interference Channel With an Out-of-Band Relay. IEEE Transactions on Information Theory, 2011, 57, 2746-2764.	1.5	40
67	Linear and Nonlinear Preequalization/Equalization for MIMO Systems With Long-Term Channel State Information at the Transmitter. IEEE Transactions on Wireless Communications, 2004, 3, 373-378.	6.1	39
68	Wireless Secrecy in Cellular Systems With Infrastructure-Aided Cooperation. IEEE Transactions on Information Forensics and Security, 2009, 4, 242-256.	4.5	39
69	Non-Orthogonal Multiplexing of Ultra-Reliable and Broadband Services in Fog-Radio Architectures. IEEE Access, 2019, 7, 13035-13049.	2.6	38
70	Uplink Throughput of TDMA Cellular Systems with Multicell Processing and Amplify-and-Forward Cooperation Between Mobiles. IEEE Transactions on Wireless Communications, 2007, 6, 2942-2951.	6.1	37
71	Asymptotic Analysis of Reduced-Feedback Strategies for MIMO Gaussian Broadcast Channels. IEEE Transactions on Information Theory, 2008, 54, 1308-1316.	1.5	34
72	Secure Communications via Cooperating Base Stations. IEEE Communications Letters, 2008, 12, 188-190.	2.5	33

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73	Inter-Cluster Design of Precoding and Fronthaul Compression for Cloud Radio Access Networks. IEEE Wireless Communications Letters, 2014, 3, 369-372.	3.2	33
74	Random Access in C-RAN for User Activity Detection With Limited-Capacity Fronthaul. IEEE Signal Processing Letters, 2017, 24, 17-21.	2.1	33
75	Modulation classification of MIMO-OFDM signals by Independent Component Analysis and Support Vector Machines. , 2011, , .		32
76	On the Trade-Off Between Computational Load and Reliability for Network Function Virtualization. IEEE Communications Letters, 2017, 21, 1767-1770.	2.5	32
77	Beyond Max-SNR: Joint Encoding for Reconfigurable Intelligent Surfaces. , 2020, , .		32
78	Packet-wise vertical handover for unlicensed multi-standard spectrum access with cognitive radios. IEEE Transactions on Wireless Communications, 2008, 7, 5172-5176.	6.1	31
79	Federated Learning Over Wireless Device-to-Device Networks: Algorithms and Convergence Analysis. IEEE Journal on Selected Areas in Communications, 2021, 39, 3723-3741.	9.7	31
80	Cellular Systems with Full-Duplex Amplify-and-Forward Relaying and Cooperative Base-Stations. , 2007, , .		30
81	The Effect of Imperfect Channel Knowledge on a MIMO System with Interference. IEEE Transactions on Communications, 2012, 60, 2221-2229.	4.9	30
82	Meta-Learning to Communicate: Fast End-to-End Training for Fading Channels. , 2020, , .		30
83	Spectrum Leasing via Cooperation for Enhanced Physical-Layer Secrecy. , 2011, , .		29
84	On Codebook Information for Interference Relay Channels With Out-of-Band Relaying. IEEE Transactions on Information Theory, 2011, 57, 2880-2888.	1.5	29
85	Energy Management Policies for Passive RFID Sensors with RF-Energy Harvesting. , 2010, , .		28
86	Inter-layer per-€mobile optimization of cloud mobile computing: a message-passing approach. Transactions on Emerging Telecommunications Technologies, 2016, 27, 814-827.	2.6	28
87	Multiple Multicasts With the Help of a Relay. IEEE Transactions on Information Theory, 2010, 56, 6142-6158.	1.5	27
88	Sum-Rate of MIMO Broadcast Channels with One Bit Feedback. , 2006, , .		26
89	Spectrum Leasing via Cooperation With Multiple Primary Users. IEEE Transactions on Vehicular Technology, 2012, 61, 820-825.	3.9	26
90	Multiple Access Channels With States Causally Known at Transmitters. IEEE Transactions on Information Theory, 2013, 59, 1394-1404.	1.5	26

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91	Hypergraph-Based Analysis of Clustered Co-Operative Beamforming With Application to Edge Caching. IEEE Wireless Communications Letters, 2016, 5, 84-87.	3.2	26
92	Throughput of Low-Power Cellular Systems With Collaborative Base Stations and Relaying. IEEE Transactions on Information Theory, 2008, 54, 459-467.	1.5	25
93	Distributed MIMO in multi-cell wireless systems via finite-capacity links. , 2008, , .		25
94	Robust Communication via Decentralized Processing With Unreliable Backhaul Links. IEEE Transactions on Information Theory, 2011, 57, 4187-4201.	1.5	25
95	Joint cloud and edge processing for latency minimization in Fog Radio Access Networks. , 2016, , .		25
96	Multihop Backhaul Compression for the Uplink of Cloud Radio Access Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 3185-3199.	3.9	25
97	Reliable and Low-Latency Fronthaul for Tactile Internet Applications. IEEE Journal on Selected Areas in Communications, 2018, 36, 2455-2463.	9.7	25
98	On Model Coding for Distributed Inference and Transmission in Mobile Edge Computing Systems. IEEE Communications Letters, 2019, 23, 1065-1068.	2.5	25
99	Lower Bound on Training-Based Channel Estimation Error for Frequency-Selective Block-Fading Rayleigh MIMO Channels. IEEE Transactions on Signal Processing, 2004, 52, 3265-3277.	3.2	24
100	Performance Analysis of Collaborative Hybrid-ARQ Incremental Redundancy Protocols Over Fading Channels. , 2006, , .		24
101	Spectrum Leasing via Distributed Cooperation in Cognitive Radio. , 2008, , .		23
102	Cloud Radio-Multistatic Radar: Joint Optimization of Code Vector and Backhaul Quantization. IEEE Signal Processing Letters, 2015, 22, 494-498.	2.1	23
103	Non-Orthogonal Unicast and Broadcast Transmission via Joint Beamforming and LDM in Cellular Networks. , 2016, , .		23
104	Joint Design of Fronthauling and Hybrid Beamforming for Downlink C-RAN Systems. IEEE Transactions on Communications, 2019, 67, 4423-4434.	4.9	23
105	Minimizing Latency to Support VR Social Interactions Over Wireless Cellular Systems via Bandwidth Allocation. IEEE Wireless Communications Letters, 2018, 7, 776-779.	3.2	22
106	Cognitive Access Policies under a Primary ARQ Process via Forward-Backward Interference Cancellation. IEEE Journal on Selected Areas in Communications, 2013, 31, 2374-2386.	9.7	21
107	Online Supervised Learning for Traffic Load Prediction in Framed-ALOHA Networks. IEEE Communications Letters, 2019, 23, 1778-1782.	2.5	21
108	End-to-End Fast Training of Communication Links Without a Channel Model via Online Meta-Learning. , 2020, , .		20

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109	Multislot estimation of frequency-selective fast-varying channels. IEEE Transactions on Communications, 2003, 51, 1337-1347.	4.9	19
110	On the Energy Efficiency of Hybrid-ARQ Protocols in Fading Channels. , 2007, , .		19
111	The Cognitive Multiple Access Wire-Tap Channel. , 2009, , .		19
112	Interference Channel aided by an Infrastructure Relay. , 2009, , .		19
113	Spectrum Leasing via Cooperative Opportunistic Routing Techniques. IEEE Transactions on Wireless Communications, 2011, 10, 2960-2970.	6.1	19
114	Ergodic and Outage Performance of Fading Broadcast Channels With 1-Bit Feedback. IEEE Transactions on Vehicular Technology, 2010, 59, 1282-1293.	3.9	18
115	Optimality of myopic scheduling and whittle indexability for energy harvesting sensors. , 2012, , .		18
116	Spiking Neural Networksâ€”Part II: Detecting Spatio-Temporal Patterns. IEEE Communications Letters, 2021, 25, 1741-1745.	2.5	18
117	Cognitive Radio with Secondary Packet-By-Packet Vertical Handover. , 2008, , .		17
118	Throughput of Cellular Systems with Conferencing Mobiles and Cooperative Base Stations. Eurasip Journal on Wireless Communications and Networking, 2008, 2008, .	1.5	17
119	Dynamic Framed-ALOHA for Energy-Constrained Wireless Sensor Networks with Energy Harvesting. , 2010, , .		17
120	Cellular Systems with Non-Regenerative Relaying and Cooperative Base Stations. IEEE Transactions on Wireless Communications, 2010, 9, 2654-2663.	6.1	17
121	Heegardâ€™Berger and Cascade Source Coding Problems With Common Reconstruction Constraints. IEEE Transactions on Information Theory, 2013, 59, 1458-1474.	1.5	17
122	Robust Uplink Communications over Fading Channels with Variable Backhaul Connectivity. IEEE Transactions on Wireless Communications, 2013, 12, 5788-5799.	6.1	17
123	Non-Orthogonal Unicast and Broadcast Transmission via Joint Beamforming and LDM in Cellular Networks. IEEE Transactions on Broadcasting, 2020, 66, 216-228.	2.5	17
124	How Much Can D2D Communication Reduce Content Delivery Latency in Fog Networks With Edge Caching?. IEEE Transactions on Communications, 2020, 68, 2308-2323.	4.9	17
125	Joint multi-cell processing for downlink channels with limited-capacity backhaul. , 2008, , .		16
126	On the impact of limited-capacity backhaul and inter-users links in cooperative multicell networks. , 2008, , .		16

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127	Gaussian Interference Channel Aided by a Relay with Out-of-Band Reception and In-Band Transmission. IEEE Transactions on Communications, 2011, 59, 2976-2981.	4.9	16
128	HARQ Buffer Management: An Information-Theoretic View. IEEE Transactions on Communications, 2015, 63, 4539-4550.	4.9	16
129	Multivariate Fronthaul Quantization for Downlink C-RAN. IEEE Transactions on Signal Processing, 2016, 64, 5025-5037.	3.2	16
130	Layered Downlink Precoding for C-RAN Systems With Full Dimensional MIMO. IEEE Transactions on Vehicular Technology, 2017, 66, 2170-2182.	3.9	16
131	Cloud-Aided Edge Caching with Wireless Multicast Fronthauling in Fog Radio Access Networks. , 2017, , .		16
132	Online edge caching in fog-aided wireless networks. , 2017, , .		16
133	Multi-Tenant C-RAN With Spectrum Pooling: Downlink Optimization Under Privacy Constraints. IEEE Transactions on Vehicular Technology, 2018, 67, 10492-10503.	3.9	16
134	Cooperative Deep Reinforcement Learning for Multiple-group NB-IoT Networks Optimization. , 2019, , .		16
135	Information and Energy Flows in Graphical Networks with Energy Transfer and Reuse. IEEE Wireless Communications Letters, 2013, 2, 371-374.	3.2	15
136	Code-Aided Channel Tracking and Decoding Over Sparse Fast-Fading Multipath Channels With an Application to Train Backbone Networks. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 481-492.	4.7	15
137	Optimization of Massive Full-Dimensional MIMO for Positioning and Communication. IEEE Transactions on Wireless Communications, 2018, 17, 6205-6217.	6.1	15
138	Adaptive Coding and Channel Shaping Through Reconfigurable Intelligent Surfaces: An Information-Theoretic Analysis. IEEE Transactions on Communications, 2021, 69, 7320-7334.	4.9	15
139	Energy group-based dynamic framed ALOHA for wireless networks with energy harvesting. , 2012, , .		14
140	Uplink HARQ for Cloud RAN via Separation of Control and Data Planes. IEEE Transactions on Vehicular Technology, 2017, 66, 4005-4016.	3.9	14
141	Optimizing Pipelined Computation and Communication for Latency-Constrained Edge Learning. IEEE Communications Letters, 2019, 23, 1542-1546.	2.5	14
142	Fundamental Limits of Cloud and Cache-Aided Interference Management With Multi-Antenna Edge Nodes. IEEE Transactions on Information Theory, 2019, 65, 5197-5214.	1.5	14
143	Learning How to Demodulate from Few Pilots via Meta-Learning. , 2019, , .		14
144	Learning-based Physical Layer Communications for Multiagent Collaboration. , 2019, , .		14

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145	Stability analysis of a cognitive multiple access channel with primary QoS constraints. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	13
146	Physical-layer distributed synchronization in wireless networks and applications. Physical Communication, 2008, 1, 67-83.	1.2	13
147	Cellular systems with full-duplex compress-and-forward relaying and cooperative base stations. , 2008, , .		13
148	On the capacity region of a multiple access channel with common messages. , 2010, , .		13
149	Modulation Classification via Gibbs Sampling Based on a Latent Dirichlet Bayesian Network. IEEE Signal Processing Letters, 2014, 21, 1135-1139.	2.1	13
150	Improved Latency-communication Trade-off for Map-shuffle-reduce Systems with Stragglers. , 2019, , .		13
151	Information-Theoretic Generalization Bounds for Meta-Learning and Applications. Entropy, 2021, 23, 126.	1.1	13
152	Collaborative Cloud and Edge Mobile Computing in C-RAN Systems With Minimal End-to-End Latency. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 259-274.	1.6	13
153	Fast Power Control Adaptation via Meta-Learning for Random Edge Graph Neural Networks. , 2021, , .		13
154	Interference Spins: Scheduling of Multiple Interfering Two-Way Wireless Links. IEEE Communications Letters, 2015, 19, 387-390.	2.5	12
155	Control-Data Separation With Decentralized Edge Control in Fog-Assisted Uplink Communications. IEEE Transactions on Wireless Communications, 2018, 17, 3686-3696.	6.1	12
156	Coded Computation Against Processing Delays for Virtualized Cloud-Based Channel Decoding. IEEE Transactions on Communications, 2019, 67, 28-38.	4.9	12
157	Adaptive Offline and Online Similarity-Based Caching. IEEE Networking Letters, 2020, 2, 175-179.	1.5	12
158	LAGC: Lazily Aggregated Gradient Coding for Straggler-Tolerant and Communication-Efficient Distributed Learning. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 962-974.	7.2	12
159	Multiscale Wavelet Transfer Entropy With Application to Corticomuscular Coupling Analysis. IEEE Transactions on Biomedical Engineering, 2022, 69, 771-782.	2.5	12
160	Meta-ViterbiNet: Online Meta-Learned Viterbi Equalization for Non-Stationary Channels. , 2021, , .		12
161	Prediction of mmWave/THz Link Blockages Through Meta-Learning and Recurrent Neural Networks. IEEE Wireless Communications Letters, 2021, 10, 2815-2819.	3.2	12
162	Federated Neuromorphic Learning of Spiking Neural Networks for Low-Power Edge Intelligence. , 2020, , .		12

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163	Achievable Rates of Multi-Hop and Cooperative MIMO Amplify-and-Forward Relay Systems with Full CSI. , 2006, , .		11
164	Cognitive Relaying and Opportunistic Spectrum Sensing in Unlicensed Multiple Access Channels. , 2008, , .		11
165	Throughput and Energy Efficiency of Opportunistic Routing with Type-I HARQ in Linear Multihop Networks. , 2010, , .		11
166	Optimal cognitive transmission exploiting redundancy in the primary ARQ process. , 2011, , .		11
167	Energy-Efficient Sensing and Communication of Parallel Gaussian Sources. IEEE Transactions on Communications, 2012, 60, 3826-3835.	4.9	11
168	Cloud RAN and edge caching: Fundamental performance trade-offs. , 2016, , .		11
169	Coded Computing and Cooperative Transmission for Wireless Distributed Matrix Multiplication. IEEE Transactions on Communications, 2021, 69, 2224-2239.	4.9	11
170	Towards a joint optimization of scheduling and beamforming for MIMO downlink. , 2006, , .		10
171	Outage Capacity of Two-Phase Space-Time Coded Cooperative Multicasting. , 2006, , .		10
172	Stability analysis of the cognitive interference channel. , 2006, , .		10
173	Enhancing uplink throughput via local base station cooperation. , 2008, , .		10
174	Three-user Gaussian multiple access channel with partially cooperating encoders. , 2008, , .		10
175	Robust distributed compression for cloud radio access networks. , 2012, , .		10
176	Fundamental Limits on Latency in Small-Cell Caching Systems: An Information-Theoretic Analysis. , 2016, , .		10
177	End-to-end Learning of Waveform Generation and Detection for Radar Systems. , 2019, , .		10
178	Joint Source-Channel Coding for Semantics-Aware Grant-Free Radio Access in IoT Fog Networks. IEEE Signal Processing Letters, 2021, 28, 728-732.	2.1	10
179	Multislot estimation of fast-varying space-time channels in TD-CDMA systems. IEEE Communications Letters, 2002, 6, 376-378.	2.5	9
180	Low-SNR analysis of cellular systems with cooperative base stations and mobiles. , 2006, , .		9

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181	Information-theoretic implications of constrained cooperation in simple cellular models. , 2008, , .		9
182	Throughput analysis of type-I HARQ strategies in Two-Way Relay Channels. , 2009, , .		9
183	An Auction-Based Incentive Mechanism for Non-Altruistic Cooperative ARQ via Spectrum-Leasing. , 2009, , .		9
184	Energy-neutral source-channel coding in energy-harvesting wireless sensors. , 2011, , .		9
185	Cognitive transmissions under a primary ARQ process via backward interference cancellation. , 2011, , .		9
186	Multihop backhaul compression for the uplink of cloud radio access networks. , 2014, , .		9
187	Performance evaluation of multiterminal backhaul compression for cloud radio access networks. , 2014, , .		9
188	Positioning via direct localisation in Câ€RAN systems. IET Communications, 2016, 10, 2238-2244.	1.5	9
189	Information-Centric Grant-Free Access for IoT Fog Networks: Edge vs. Cloud Detection and Learning. IEEE Transactions on Wireless Communications, 2020, 19, 6347-6361.	6.1	9
190	Free Energy Minimization: A Unified Framework for Modeling, Inference, Learning, and Optimization [Lecture Notes]. IEEE Signal Processing Magazine, 2021, 38, 120-125.	4.6	9
191	Spiking Neural Networksâ€™Part III: Neuromorphic Communications. IEEE Communications Letters, 2021, 25, 1746-1750.	2.5	9
192	Federated Generalized Bayesian Learning via Distributed Stein Variational Gradient Descent. IEEE Transactions on Signal Processing, 2022, 70, 2180-2192.	3.2	9
193	Combined linear pre-equalization and BLAST equalization with channel correlation feedback. IEEE Communications Letters, 2003, 7, 487-489.	2.5	8
194	Linear and non-linear precoding/decoding for MIMO systems using the fading correlation at the transmitter. , 0, , .		8
195	Sum-Rate Analysis of General OFDM Downlink Channels with 1-bit Feedback per Sub-Carrier. , 2006, , .		8
196	A Game-Theoretic View on the Interference Channel with Random Access. , 2007, , .		8
197	Cooperation and coordination in cognitive networks with packet retransmission. , 2009, , .		8
198	Robust coding for lossy computing with receiver-side observation costs. , 2011, , .		8

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199	Non-convex utility maximization in Gaussian MISO broadcast and interference channels. , 2011, , .		8
200	Two-way communication with energy exchange. , 2012, , .		8
201	On channels with action-dependent states. , 2012, , .		8
202	Lossy computing of correlated sources with fractional sampling. , 2012, , .		8
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