

# Oswaldo Simeone

## List of Publications by Year in descending order

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364  
papers

13,009  
citations

50170

46  
h-index

30010

103  
g-index

366  
all docs

366  
docs citations

366  
times ranked

8130  
citing authors

#	ARTICLE	IF	CITATIONS
1	Joint Design of Radar Waveform and Detector via End-to-End Learning With Waveform Constraints. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 552-567.	2.6	7
2	Multiscale Wavelet Transfer Entropy With Application to Corticomuscular Coupling Analysis. IEEE Transactions on Biomedical Engineering, 2022, 69, 771-782.	2.5	12
3	Channel-Driven Monte Carlo Sampling for Bayesian Distributed Learning in Wireless Data Centers. IEEE Journal on Selected Areas in Communications, 2022, 40, 562-577.	9.7	2
4	Transfer Meta-Learning: Information-Theoretic Bounds and Information Meta-Risk Minimization. IEEE Transactions on Information Theory, 2022, 68, 474-501.	1.5	4
5	Multisample Online Learning for Probabilistic Spiking Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 2034-2044.	7.2	3
6	Training Hybrid Classical-Quantum Classifiers via Stochastic Variational Optimization. IEEE Signal Processing Letters, 2022, 29, 977-981.	2.1	5
7	An Information-Theoretic Analysis of the Cost of Decentralization for Learning and Inference under Privacy Constraints. Entropy, 2022, 24, 485.	1.1	0
8	Federated Generalized Bayesian Learning via Distributed Stein Variational Gradient Descent. IEEE Transactions on Signal Processing, 2022, 70, 2180-2192.	3.2	9
9	Predicting Flat-Fading Channels via Meta-Learned Closed-Form Linear Filters and Equilibrium Propagation. , 2022, , .		0
10	AI-Based Channel Prediction in D2D Links: An Empirical Validation. IEEE Access, 2022, 10, 65459-65472.	2.6	8
11	Robust Design of Rate-Splitting Multiple Access With Imperfect CSI for Cell-Free MIMO Systems. , 2022, , .		2
12	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
13	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
14	Adaptive Coding and Channel Shaping Through Reconfigurable Intelligent Surfaces: An Information-Theoretic Analysis. IEEE Transactions on Communications, 2021, 69, 7320-7334.	4.9	15
15	Learning to Demodulate From Few Pilots via Offline and Online Meta-Learning. IEEE Transactions on Signal Processing, 2021, 69, 226-239.	3.2	54
16	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
17	Information-Theoretic Generalization Bounds for Meta-Learning and Applications. Entropy, 2021, 23, 126.	1.1	13
18	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

#	ARTICLE	IF	CITATIONS
19	Coded Computing and Cooperative Transmission for Wireless Distributed Matrix Multiplication. IEEE Transactions on Communications, 2021, 69, 2224-2239.	4.9	11
20	Meta-ViterbiNet: Online Meta-Learned Viterbi Equalization for Non-Stationary Channels. , 2021, , .		12
21	Spiking Neural Networksâ€™Part III: Neuromorphic Communications. IEEE Communications Letters, 2021, 25, 1746-1750.	2.5	9
22	Spiking Neural Networksâ€™Part II: Detecting Spatio-Temporal Patterns. IEEE Communications Letters, 2021, 25, 1741-1745.	2.5	18
23	Fast On-Device Adaptation for Spiking Neural Networks Via Online-Within-Online Meta-Learning. , 2021, , .		4
24	BiSNN: Training Spiking Neural Networks with Binary Weights via Bayesian Learning. , 2021, , .		6
25	Multi-Sample Online Learning for Spiking Neural Networks Based on Generalized Expectation Maximization. , 2021, , .		1
26	Spiking Neural Networksâ€™Part I: Detecting Spatial Patterns. IEEE Communications Letters, 2021, 25, 1736-1740.	2.5	2
27	An Information-Theoretic Analysis of the Impact of Task Similarity on Meta-Learning. , 2021, , .		4
28	Single-RF Multi-User Communication Through Reconfigurable Intelligent Surfaces: An Information-Theoretic Analysis. , 2021, , .		7
29	Guest Editorial for Special Issue on Coded Computing. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 813-813.	1.9	1
30	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
31	VOWEL: A Local Online Learning Rule for Recurrent Networks of Probabilistic Spiking Winner-Take-All Circuits. , 2021, , .		3
32	Prediction of mmWave/THz Link Blockages Through Meta-Learning and Recurrent Neural Networks. IEEE Wireless Communications Letters, 2021, 10, 2815-2819.	3.2	12
33	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
34	Bayesian Variational Federated Learning and Unlearning in Decentralized Networks. , 2021, , .		1
35	Fast Power Control Adaptation via Meta-Learning for Random Edge Graph Neural Networks. , 2021, , .		13
36	Transfer Bayesian Meta-Learning Via Weighted Free Energy Minimization. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
37	A Unified PAC-Bayesian Framework for Machine Unlearning via Information Risk Minimization. , 2021, , .		2
38	Fast Data-Driven Adaptation of Radar Detection via Meta-Learning. , 2021, , .		2
39	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
40	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
41	Multi-Cell Mobile Edge Coded Computing: Trading Communication and Computing for Distributed Matrix Multiplication. , 2020, , .		5
42	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
43	Adaptive Offline and Online Similarity-Based Caching. IEEE Networking Letters, 2020, 2, 175-179.	1.5	12
44	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
45	Joint Source-Channel Coding and Bayesian Message Passing Detection for Grant-Free Radio Access in IoT. , 2020, , .		5
46	End-to-End Fast Training of Communication Links Without a Channel Model via Online Meta-Learning. , 2020, , .		20
47	Inter-Tenant Cooperative Reception for C-RAN Systems With Spectrum Pooling. , 2020, , .		4
48	Decentralized Federated Learning via SGD over Wireless D2D Networks. , 2020, , .		47
49	Coded Computation Against Straggling Channel Decoders in the Cloud for Gaussian Channels. , 2020, , .		1
50	Beyond Max-SNR: Joint Encoding for Reconfigurable Intelligent Surfaces. , 2020, , .		32
51	Meta-Learning to Communicate: Fast End-to-End Training for Fading Channels. , 2020, , .		30
52	Semantic-Effectiveness Filtering and Control for Post-5G Wireless Connectivity. Journal of the Indian Institute of Science, 2020, 100, 435-443.	0.9	51
53	From Learning to Meta-Learning: Reduced Training Overhead and Complexity for Communication Systems. , 2020, , .		42
54	Reconfigurable Intelligent Surfaces vs. Relaying: Differences, Similarities, and Performance Comparison. IEEE Open Journal of the Communications Society, 2020, 1, 798-807.	4.4	445

#	ARTICLE	IF	CITATIONS
55	Private and Secure Distributed Matrix Multiplication With Flexible Communication Load. IEEE Transactions on Information Forensics and Security, 2020, 15, 2722-2734.	4.5	55
56	Federated Neuromorphic Learning of Spiking Neural Networks for Low-Power Edge Intelligence. , 2020, , .		12
57	End-to-End Learning of Neuromorphic Wireless Systems for Low-Power Edge Artificial Intelligence. , 2020, , .		7
58	Optimizing Pipelined Computation and Communication for Latency-Constrained Edge Learning. IEEE Communications Letters, 2019, 23, 1542-1546.	2.5	14
59	Online Reinforcement Learning of X-Haul Content Delivery Mode in Fog Radio Access Networks. IEEE Signal Processing Letters, 2019, 26, 1451-1455.	2.1	8
60	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
61	Learning Algorithms and Signal Processing for Brain-Inspired Computing [From the Guest Editors]. IEEE Signal Processing Magazine, 2019, 36, 12-15.	4.6	6
62	An Introduction to Probabilistic Spiking Neural Networks: Probabilistic Models, Learning Rules, and Applications. IEEE Signal Processing Magazine, 2019, 36, 64-77.	4.6	51
63	On Model Coding for Distributed Inference and Transmission in Mobile Edge Computing Systems. IEEE Communications Letters, 2019, 23, 1065-1068.	2.5	25
64	Online Supervised Learning for Traffic Load Prediction in Framed-ALOHA Networks. IEEE Communications Letters, 2019, 23, 1778-1782.	2.5	21
65	Blind Sparse Estimation of Intermittent Sources Over Unknown Fading Channels. IEEE Transactions on Vehicular Technology, 2019, 68, 9861-9871.	3.9	5
66	Learning How to Demodulate from Few Pilots via Meta-Learning. , 2019, , .		14
67	Robust Baseband Compression Against Congestion in Packet-Based Fronthaul Networks Using Multiple Description Coding. Entropy, 2019, 21, 433.	1.1	6
68	Training Dynamic Exponential Family Models with Causal and Lateral Dependencies for Generalized Neuromorphic Computing. , 2019, , .		5
69	Cooperative Deep Reinforcement Learning for Multiple-group NB-IoT Networks Optimization. , 2019, , .		16
70	Improved Latency-communication Trade-off for Map-shuffle-reduce Systems with Stragglers. , 2019, , .		13
71	Joint Design of Fronthauling and Hybrid Beamforming for Downlink C-RAN Systems. IEEE Transactions on Communications, 2019, 67, 4423-4434.	4.9	23
72	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

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73	Non-Orthogonal Multiplexing of Ultra-Reliable and Broadband Services in Fog-Radio Architectures. IEEE Access, 2019, 7, 13035-13049.	2.6	38
74	Cloud-Aided Interference Management with Cache-Enabled Edge Nodes and Users. , 2019, , .		2
75	Learning First-to-Spike Policies for Neuromorphic Control Using Policy Gradients. , 2019, , .		6
76	End-to-end Learning of Waveform Generation and Detection for Radar Systems. , 2019, , .		10
77	Latency Limits for Content Delivery in a Fog-RAN with D2D Communication. , 2019, , .		0
78	Wireless Federated Distillation for Distributed Edge Learning with Heterogeneous Data. , 2019, , .		62
79	Learning-based Physical Layer Communications for Multiagent Collaboration. , 2019, , .		14
80	Soft-TTL: Time-Varying Fractional Caching. IEEE Networking Letters, 2019, 1, 18-21.	1.5	3
81	Coded Computation Against Processing Delays for Virtualized Cloud-Based Channel Decoding. IEEE Transactions on Communications, 2019, 67, 28-38.	4.9	12
82	Introducing Information Measures via Inference [Lecture Notes]. IEEE Signal Processing Magazine, 2018, 35, 167-171.	4.6	1
83	Control-Data Separation With Decentralized Edge Control in Fog-Assisted Uplink Communications. IEEE Transactions on Wireless Communications, 2018, 17, 3686-3696.	6.1	12
84	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
85	Zero-Delay Source-Channel Coding With a Low-Resolution ADC Front End. IEEE Transactions on Information Theory, 2018, 64, 1241-1261.	1.5	3
86	Cloud-Edge Non-Orthogonal Transmission for Fog Networks with Delayed CSI at the Cloud. , 2018, , .		4
87	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
88	Multi-Tenant C-RAN With Spectrum Pooling: Downlink Optimization Under Privacy Constraints. IEEE Transactions on Vehicular Technology, 2018, 67, 10492-10503.	3.9	16
89	Reliable and Low-Latency Fronthaul for Tactile Internet Applications. IEEE Journal on Selected Areas in Communications, 2018, 36, 2455-2463.	9.7	25
90	5G Wireless Network Slicing for eMBB, URLLC, and mMTC: A Communication-Theoretic View. IEEE Access, 2018, 6, 55765-55779.	2.6	582

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91	Optimizing Spectrum Pooling for Multi-Tenant C-RAN Under Privacy Constraints. , 2018, , .		1
92	A Brief Introduction to Machine Learning for Engineers. Foundations and Trends in Signal Processing, 2018, 12, 200-431.	12.0	65
93	On the interplay between edge caching and HARQ in Fog-RAN. , 2018, , .		1
94	Optimization of Massive Full-Dimensional MIMO for Positioning and Communication. IEEE Transactions on Wireless Communications, 2018, 17, 6205-6217.	6.1	15
95	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
96	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
97	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
98	Layered Downlink Precoding for C-RAN Systems With Full Dimensional MIMO. IEEE Transactions on Vehicular Technology, 2017, 66, 2170-2182.	3.9	16
99	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
100	On the Trade-Off Between Computational Load and Reliability for Network Function Virtualization. IEEE Communications Letters, 2017, 21, 1767-1770.	2.5	32
101	Energy-Efficient Resource Allocation for Mobile Edge Computing-Based Augmented Reality Applications. IEEE Wireless Communications Letters, 2017, 6, 398-401.	3.2	279
102	Control-Data Separation across Edge and Cloud for Uplink Communications in C-RAN. , 2017, , .		3
103	Cloud-Aided Edge Caching with Wireless Multicast Fronthauling in Fog Radio Access Networks. , 2017, , .		16
104	Mobile cloud computing with a UAV-mounted cloudlet: optimal bit allocation for communication and computation. IET Communications, 2017, 11, 969-974.	1.5	60
105	Optimal fronthaul compression for synchronization in the uplink of cloud radio access networks. Eurasip Journal on Wireless Communications and Networking, 2017, 2017, , .	1.5	4
106	Random Access in C-RAN for User Activity Detection With Limited-Capacity Fronthaul. IEEE Signal Processing Letters, 2017, 24, 17-21.	2.1	33
107	Online edge caching in fog-aided wireless networks. , 2017, , .		16
108	Fog-Aided Wireless Networks for Content Delivery: Fundamental Latency Tradeoffs. IEEE Transactions on Information Theory, 2017, 63, 6650-6678.	1.5	114

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109	Fronthaul-Aware Design for Cloud Radio Access Networks. , 2017, , 48-75.		1
110	Uplink HARQ for Cloud RAN via Separation of Control and Data Planes. IEEE Transactions on Vehicular Technology, 2017, 66, 4005-4016.	3.9	14
111	Uplink sum-rate analysis of C-RAN with interconnected radio units. , 2017, , .		3
112	Delivery Latency Trade-Offs of Heterogeneous Contents in Fog Radio Access Networks. , 2017, , .		8
113	Content Delivery in Fog-Aided Small-Cell Systems with Offline and Online Caching: An Information-Theoretic Analysis. Entropy, 2017, 19, 366.	1.1	8
114	Signal and interference alignment via message passing for MIMO interference channels. Transactions on Emerging Telecommunications Technologies, 2016, 27, 392-407.	2.6	1
115	Cache aided wireless networks: Tradeoffs between storage and latency. , 2016, , .		68
116	Inter-layer per-layer mobile optimization of cloud mobile computing: a message-passing approach. Transactions on Emerging Telecommunications Technologies, 2016, 27, 814-827.	2.6	28
117	Non-Orthogonal Unicast and Broadcast Transmission via Joint Beamforming and LDM in Cellular Networks. , 2016, , .		23
118	Pipelined Fronthaul-Edge Content Delivery in Fog Radio Access Networks. , 2016, , .		5
119	Fundamental Limits on Latency in Small-Cell Caching Systems: An Information-Theoretic Analysis. , 2016, , .		10
120	Positioning via direct localisation in C-RAN systems. IET Communications, 2016, 10, 2238-2244.	1.5	9
121	Topology Discovery for Linear Wireless Networks With Application to Train Backbone Inauguration. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 2159-2170.	4.7	6
122	Cloud RAN and edge caching: Fundamental performance trade-offs. , 2016, , .		11
123	Joint cloud and edge processing for latency minimization in Fog Radio Access Networks. , 2016, , .		25
124	Harnessing cloud and edge synergies: toward an information theory of fog radio access networks. , 2016, 54, 44-50.		100
125	Joint optimization of cloud and edge processing for fog radio access networks. , 2016, , .		44
126	Cloud-aided wireless networks with edge caching: Fundamental latency trade-offs in fog Radio Access Networks. , 2016, , .		79



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127	Joint source-channel coding with one-bit ADC front end. , 2016, , .		3
128	Time-Asynchronous Robust Cooperative Transmission for the Downlink of C-RAN. IEEE Signal Processing Letters, 2016, 23, 1444-1448.	2.1	4
129	Joint Optimization of Cloud and Edge Processing for Fog Radio Access Networks. IEEE Transactions on Wireless Communications, 2016, 15, 7621-7632.	6.1	172
130	Multivariate Fronthaul Quantization for Downlink C-RAN. IEEE Transactions on Signal Processing, 2016, 64, 5025-5037.	3.2	16
131	Zero-delay joint source-channel coding with a 1-bit ADC front end and receiver side information. , 2016, , .		2
132	Multivariate fronthaul quantization for C-RAN downlink: Channel-adaptive joint quantization in the cloud. , 2016, , .		6
133	Multistatic cloud radar systems: joint sensing and communication design. Transactions on Emerging Telecommunications Technologies, 2016, 27, 716-730.	2.6	8
134	Cloud radio access network: Virtualizing wireless access for dense heterogeneous systems. Journal of Communications and Networks, 2016, 18, 135-149.	1.8	152
135	Joint uplink/downlink and offloading optimization for mobile cloud computing with limited backhaul. , 2016, , .		4
136	Multihop Backhaul Compression for the Uplink of Cloud Radio Access Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 3185-3199.	3.9	25
137	Hypergraph-Based Analysis of Clustered Co-Operative Beamforming With Application to Edge Caching. IEEE Wireless Communications Letters, 2016, 5, 84-87.	3.2	26
138	Robust Interference Management via Linear Precoding and Linear/Non-Linear Equalization. Journal of Signal Processing Systems, 2016, 83, 133-149.	1.4	1
139	Optimal Fronthaul Quantization for Cloud Radio Positioning. IEEE Transactions on Vehicular Technology, 2016, 65, 2763-2768.	3.9	8
140	Fronthaul Compression and Precoding Design for C-RANs Over Ergodic Fading Channels. IEEE Transactions on Vehicular Technology, 2016, 65, 5022-5032.	3.9	41
141	Lossy compression with privacy constraints: Optimality of polar codes. , 2015, , .		1
142	HARQ buffer management: An information-theoretic view. , 2015, , .		2
143	Joint interference alignment and bi-directional scheduling for MIMO two-way multi-link networks. , 2015, , .		8
144	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

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145	Joint precoding and fronthaul optimization for C-RANs in ergodic fading channels. , 2015, , .		2
146	Cloud Radio-Multistatic Radar: Joint Optimization of Code Vector and Backhaul Quantization. IEEE Signal Processing Letters, 2015, 22, 494-498.	2.1	23
147	Interference Spins: Scheduling of Multiple Interfering Two-Way Wireless Links. IEEE Communications Letters, 2015, 19, 387-390.	2.5	12
148	Beamforming Design for Joint Localization and Data Transmission in Distributed Antenna System. IEEE Transactions on Vehicular Technology, 2015, 64, 62-76.	3.9	47
149	Energy Harvesting Wireless Communications: A Review of Recent Advances. IEEE Journal on Selected Areas in Communications, 2015, 33, 360-381.	9.7	777
150	Guest Editorial: Wireless Communications Powered by Energy Harvesting and Wireless Energy Transfer (Part I). IEEE Journal on Selected Areas in Communications, 2015, 33, 357-359.	9.7	3
151	Modulation classification for MIMO-OFDM signals via Gibbs sampling. , 2015, , .		4
152	Optimization of multistatic cloud radar with multiple-access wireless backhaul. , 2015, , .		8
153	Guest Editorial: Wireless Communications Powered by Energy Harvesting and Wireless Energy Transfer, Part II. IEEE Journal on Selected Areas in Communications, 2015, 33, 1477-1479.	9.7	0
154	HARQ Buffer Management: An Information-Theoretic View. IEEE Transactions on Communications, 2015, 63, 4539-4550.	4.9	16
155	Two-way communication with adaptive data acquisition. Transactions on Emerging Telecommunications Technologies, 2015, 26, 532-546.	2.6	2
156	Multivariate backhaul compression for the downlink of cloud radio access networks. , 2014, , .		3
157	Multi-layer transmission and hybrid relaying for relay channels with multiple out-of-band relays. Transactions on Emerging Telecommunications Technologies, 2014, 25, 895-904.	2.6	2
158	Multihop backhaul compression for the uplink of cloud radio access networks. , 2014, , .		9
159	Dynamic Compression-Transmission for Energy-Harvesting Multihop Networks With Correlated Sources. IEEE/ACM Transactions on Networking, 2014, 22, 1729-1741.	2.6	47
160	Modulation Classification via Gibbs Sampling Based on a Latent Dirichlet Bayesian Network. IEEE Signal Processing Letters, 2014, 21, 1135-1139.	2.1	13
161	Constrained codes for joint energy and information transfer with receiver energy utilization requirements. , 2014, , .		1
162	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

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163	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
164	Performance evaluation of multiterminal backhaul compression for cloud radio access networks. , 2014, , .		9
165	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
166	Information Embedding on Actions. IEEE Transactions on Information Theory, 2014, 60, 6902-6916.	1.5	5
167	On remote radio head selection for the downlink of backhaul constrained network MIMO systems. , 2014, , .		0
168	Cascade Source Coding With a Side Information Vending Machine. IEEE Transactions on Information Theory, 2014, 60, 6888-6901.	1.5	5
169	Inter-Cluster Design of Precoding and Fronthaul Compression for Cloud Radio Access Networks. IEEE Wireless Communications Letters, 2014, 3, 369-372.	3.2	33
170	Constrained Codes for Joint Energy and Information Transfer. IEEE Transactions on Communications, 2014, 62, 2121-2131.	4.9	42
171	Full-Duplex Cloud Radio Access Networks: An Information-Theoretic Viewpoint. IEEE Wireless Communications Letters, 2014, 3, 413-416.	3.2	49
172	Joint Decompression and Decoding for Cloud Radio Access Networks. IEEE Signal Processing Letters, 2013, 20, 503-506.	2.1	52
173	Relay Channel with Orthogonal Components and Structured Interference Known at the Source. IEEE Transactions on Communications, 2013, 61, 1277-1289.	4.9	3
174	Heegard's Berger and Cascade Source Coding Problems With Common Reconstruction Constraints. IEEE Transactions on Information Theory, 2013, 59, 1458-1474.	1.5	17
175	Robust and Efficient Distributed Compression for Cloud Radio Access Networks. IEEE Transactions on Vehicular Technology, 2013, 62, 692-703.	3.9	238
176	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
177	Robust Uplink Communications over Fading Channels with Variable Backhaul Connectivity. IEEE Transactions on Wireless Communications, 2013, 12, 5788-5799.	6.1	17
178	On the Optimal Scheduling of Independent, Symmetric and Time-Sensitive Tasks. IEEE Transactions on Automatic Control, 2013, 58, 2421-2425.	3.6	7
179	Information and Energy Flows in Graphical Networks with Energy Transfer and Reuse. IEEE Wireless Communications Letters, 2013, 2, 371-374.	3.2	15
180	Source Coding When the Side Information May Be Delayed. IEEE Transactions on Information Theory, 2013, 59, 3607-3618.	1.5	6

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181	Interactive Joint Transfer of Energy and Information. IEEE Transactions on Communications, 2013, 61, 2086-2097.	4.9	91
182	Information embedding on actions. , 2013, , .		6
183	Lossy Computing of Correlated Sources with Fractional Sampling. IEEE Transactions on Communications, 2013, 61, 3685-3696.	4.9	3
184	Joint signal and channel state information compression for uplink network MIMO systems. , 2013, , .		2
185	Multiple Access Channels With States Causally Known at Transmitters. IEEE Transactions on Information Theory, 2013, 59, 1394-1404.	1.5	26
186	Spectrum Leasing Via Cooperative Interference Forwarding. IEEE Transactions on Vehicular Technology, 2013, 62, 1367-1372.	3.9	5
187	Degraded Broadcast Diamond Channels With Noncausal State Information at the Source. IEEE Transactions on Information Theory, 2013, 59, 8210-8223.	1.5	2
188	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
189	Distributed and Cascade Lossy Source Coding With a Side Information "Vending Machine". IEEE Transactions on Information Theory, 2013, 59, 6807-6819.	1.5	7
190	Beamforming design for joint localization and data transmission in distributed antenna systems. , 2013, , .		3
191	Two-way communication with adaptive data acquisition. , 2013, , .		4
192	Source coding with in-block memory and controllable causal side information. , 2013, , .		3
193	Blahut-Arimoto algorithm and code design for action-dependent source coding problems. , 2013, , .		1
194	Delay-tolerant robust communication on an out-of-band relay channel with fading side information. , 2013, , .		1
195	Multi-layer hybrid-ARQ for an out-of-band relay channel. , 2013, , .		1
196	The state-dependent degraded broadcast diamond channel. , 2013, , .		1
197	Robust uplink communications over fading channels with variable backhaul connectivity. , 2013, , .		2
198	Energy-efficient sensing and communication of parallel Gaussian sources. , 2012, , .		1

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199	Two-way communication with energy exchange. , 2012, , .		8
200	Gaussian multiple descriptions with common and constrained reconstruction constraints. , 2012, , .		2
201	Spectrum Leasing via Cooperation With Multiple Primary Users. IEEE Transactions on Vehicular Technology, 2012, 61, 820-825.	3.9	26
202	Relaying under structured interference. , 2012, , .		0
203	On cascade source coding with a side information &#x201C;vending machine&#x201D;. , 2012, , .		2
204	On the Heegard-Berger problem with common reconstruction constraints. , 2012, , .		1
205	Source coding with delayed side information. , 2012, , .		0
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