

Deniz Gunduz

List of Publications by Year in descending order

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326
papers

8,961
citations

81839

39
h-index

79644

73
g-index

326
all docs

326
docs citations

326
times ranked

4175
citing authors

#	ARTICLE	IF	CITATIONS
1	Federated Learning Over Wireless Fading Channels. IEEE Transactions on Wireless Communications, 2020, 19, 3546-3557.	6.1	335
2	Machine Learning at the Wireless Edge: Distributed Stochastic Gradient Descent Over-the-Air. IEEE Transactions on Signal Processing, 2020, 68, 2155-2169.	3.2	296
3	Deep Joint Source-Channel Coding for Wireless Image Transmission. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 567-579.	4.9	282
4	Designing intelligent energy harvesting communication systems. , 2014, 52, 210-216.		250
5	Learning-based optimization of cache content in a small cell base station. , 2014, , .		238
6	A Learning Theoretic Approach to Energy Harvesting Communication System Optimization. IEEE Transactions on Wireless Communications, 2013, 12, 1872-1882.	6.1	225
7	The Multiway Relay Channel. IEEE Transactions on Information Theory, 2013, 59, 51-63.	1.5	214
8	Distributed Learning in Wireless Networks: Recent Progress and Future Challenges. IEEE Journal on Selected Areas in Communications, 2021, 39, 3579-3605.	9.7	201
9	Opportunistic cooperation by dynamic resource allocation. IEEE Transactions on Wireless Communications, 2007, 6, 1446-1454.	6.1	200
10	Wireless Content Caching for Small Cell and D2D Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 1222-1234.	9.7	193
11	A general framework for the optimization of energy harvesting communication systems with battery imperfections. Journal of Communications and Networks, 2012, 14, 130-139.	1.8	181
12	Hierarchical Federated Learning ACROSS Heterogeneous Cellular Networks. , 2020, , .		161
13	One-Bit Over-the-Air Aggregation for Communication-Efficient Federated Edge Learning: Design and Convergence Analysis. IEEE Transactions on Wireless Communications, 2021, 20, 2120-2135.	6.1	155
14	Machine Learning in the Air. IEEE Journal on Selected Areas in Communications, 2019, 37, 2184-2199.	9.7	152
15	Average Age of Information With Hybrid ARQ Under a Resource Constraint. IEEE Transactions on Wireless Communications, 2019, 18, 1900-1913.	6.1	137
16	The multi-way relay channel. , 2009, , .		135
17	Increasing Smart Meter Privacy Through Energy Harvesting and Storage Devices. IEEE Journal on Selected Areas in Communications, 2013, 31, 1331-1341.	9.7	130
18	Two-hop communication with energy harvesting. , 2011, , .		122

#	ARTICLE	IF	CITATIONS
19	DeepJSCC: Deep Joint Source-Channel Coding of Images With Feedback. IEEE Journal on Selected Areas in Information Theory, 2020, 1, 178-193.	1.9	121
20	Joint Source-Channel Codes for MIMO Block-Fading Channels. IEEE Transactions on Information Theory, 2008, 54, 116-134.	1.5	94
21	Wireless Image Retrieval at the Edge. IEEE Journal on Selected Areas in Communications, 2021, 39, 89-100.	9.7	88
22	A Reinforcement-Learning Approach to Proactive Caching in Wireless Networks. IEEE Journal on Selected Areas in Communications, 2018, 36, 1331-1344.	9.7	87
23	Convergence of Update Aware Device Scheduling for Federated Learning at the Wireless Edge. IEEE Transactions on Wireless Communications, 2021, 20, 3643-3658.	6.1	87
24	Fundamental Limits of Coded Caching: Improved Delivery Rate-Cache Capacity Tradeoff. IEEE Transactions on Communications, 2017, 65, 806-815.	4.9	85
25	Source and Channel Coding for Cooperative Relaying. IEEE Transactions on Information Theory, 2007, 53, 3454-3475.	1.5	84
26	Machine Learning at the Wireless Edge: Distributed Stochastic Gradient Descent Over-the-Air. , 2019, , .		83
27	Throughput maximization for an energy harvesting communication system with processing cost. , 2012, , .		80
28	Energy Harvesting Broadband Communication Systems With Processing Energy Cost. IEEE Transactions on Wireless Communications, 2014, 13, 6095-6107.	6.1	77
29	Smart Meter Privacy With Renewable Energy and an Energy Storage Device. IEEE Transactions on Information Forensics and Security, 2018, 13, 129-142.	4.5	76
30	Rate regions for the separated two-way relay channel. , 2008, , .		75
31	Privacy-Aware Smart Metering: Progress and Challenges. IEEE Signal Processing Magazine, 2018, 35, 59-78.	4.6	72
32	Source and Channel Coding for Correlated Sources Over Multiuser Channels. IEEE Transactions on Information Theory, 2009, 55, 3927-3944.	1.5	66
33	MIMO two-way relay channel: Diversity-multiplexing tradeoff analysis. , 2008, , .		65
34	Energy-Aware Analog Aggregation for Federated Learning with Redundant Data. , 2020, , .		65
35	Multi-hop MIMO relay networks: diversity-multiplexing trade-off analysis. IEEE Transactions on Wireless Communications, 2010, 9, 1738-1747.	6.1	59
36	Pruning the Pilots: Deep Learning-Based Pilot Design and Channel Estimation for MIMO-OFDM Systems. IEEE Transactions on Wireless Communications, 2021, 20, 6315-6328.	6.1	58

#	ARTICLE	IF	CITATIONS
37	Compound Multiple-Access Channels With Partial Cooperation. IEEE Transactions on Information Theory, 2009, 55, 2425-2441.	1.5	56
38	Optimal Utility-Privacy Trade-Off With Total Variation Distance as a Privacy Measure. IEEE Transactions on Information Forensics and Security, 2020, 15, 594-603.	4.5	53
39	Secret communication with feedback. , 2008, , .		51
40	Distortion Minimization in Gaussian Layered Broadcast Coding With Successive Refinement. IEEE Transactions on Information Theory, 2009, 55, 5074-5086.	1.5	51
41	Speeding Up Distributed Gradient Descent by Utilizing Non-persistent Stragglers. , 2019, , .		51
42	Semantic-Effectiveness Filtering and Control for Post-5G Wireless Connectivity. Journal of the Indian Institute of Science, 2020, 100, 435-443.	0.9	51
43	Wyner's Ziv Coding Over Broadcast Channels: Digital Schemes. IEEE Transactions on Information Theory, 2010, 56, 1782-1799.	1.5	49
44	Privacy-Cost Trade-offs in Demand-Side Management With Storage. IEEE Transactions on Information Forensics and Security, 2017, 12, 1458-1469.	4.5	48
45	Average age of information with hybrid ARQ under a resource constraint. , 2018, , .		48
46	Joint Device-Edge Inference over Wireless Links with Pruning. , 2020, , .		48
47	Bandwidth-Agile Image Transmission With Deep Joint Source-Channel Coding. IEEE Transactions on Wireless Communications, 2021, 20, 8081-8095.	6.1	47
48	Multi-armed bandit optimization of cache content in wireless infostation networks. , 2014, , .		44
49	Coded caching for a large number of users. , 2016, , .		44
50	Reinforcement Learning to Minimize Age of Information with an Energy Harvesting Sensor with HARQ and Sensing Cost. , 2019, , .		44
51	Computation Scheduling for Distributed Machine Learning With Straggling Workers. IEEE Transactions on Signal Processing, 2019, 67, 6270-6284.	3.2	43
52	Update Aware Device Scheduling for Federated Learning at the Wireless Edge. , 2020, , .		43
53	Energy-Distortion Tradeoffs in Gaussian Joint Source-Channel Coding Problems. IEEE Transactions on Information Theory, 2012, 58, 3153-3168.	1.5	42
54	Over-the-Air Machine Learning at the Wireless Edge. , 2019, , .		42

#	ARTICLE	IF	CITATIONS
55	Distributed Deep Convolutional Compression for Massive MIMO CSI Feedback. IEEE Transactions on Wireless Communications, 2021, 20, 2621-2633.	6.1	42
56	Blind Federated Edge Learning. IEEE Transactions on Wireless Communications, 2021, 20, 5129-5143.	6.1	42
57	Decentralized Caching and Coded Delivery With Distinct Cache Capacities. IEEE Transactions on Communications, 2017, 65, 4657-4669.	4.9	41
58	Dynamic Scheduling for Over-the-Air Federated Edge Learning With Energy Constraints. IEEE Journal on Selected Areas in Communications, 2022, 40, 227-242.	9.7	40
59	Source and Channel Coding for Quasi-Static Fading Channels. , 0, , .		39
60	Lossless compression with security constraints. , 2008, , .		39
61	Collision Resolution in Slotted ALOHA with Multi-User Physical-Layer Network Coding. , 2011, , .		39
62	A Reinforcement Learning Approach to Age of Information in Multi-User Networks. , 2018, , .		39
63	Secure lossless compression with side information. , 2008, , .		38
64	Smart Meter Privacy for Multiple Users in the Presence of an Alternative Energy Source. IEEE Transactions on Information Forensics and Security, 2015, 10, 132-141.	4.5	38
65	Cache-Aided Content Delivery Over Erasure Broadcast Channels. IEEE Transactions on Communications, 2018, 66, 370-381.	4.9	38
66	Management and Orchestration of Virtual Network Functions via Deep Reinforcement Learning. IEEE Journal on Selected Areas in Communications, 2020, 38, 304-317.	9.7	37
67	Mobility and Popularity-Aware Coded Small-Cell Caching. IEEE Communications Letters, 2018, 22, 288-291.	2.5	36
68	Collaborative Machine Learning at the Wireless Edge with Blind Transmitters. , 2019, , .		36
69	Communicate to Learn at the Edge. IEEE Communications Magazine, 2020, 58, 14-19.	4.9	36
70	A Reinforcement Learning Approach to Age of Information in Multi-User Networks With HARQ. IEEE Journal on Selected Areas in Communications, 2021, 39, 1412-1426.	9.7	34
71	Decentralized Distributed Multi-institutional PET Image Segmentation Using a Federated Deep Learning Framework. Clinical Nuclear Medicine, 2022, 47, 606-617.	0.7	34
72	Effective Communications: A Joint Learning and Communication Framework for Multi-Agent Reinforcement Learning Over Noisy Channels. IEEE Journal on Selected Areas in Communications, 2021, 39, 2590-2603.	9.7	33

#	ARTICLE	IF	CITATIONS
73	Cooperative Source and Channel Coding for Wireless Multimedia Communications. IEEE Journal on Selected Topics in Signal Processing, 2007, 1, 295-307.	7.3	32
74	Multi-Access Communications With Energy Harvesting: A Multi-Armed Bandit Model and the Optimality of the Myopic Policy. IEEE Journal on Selected Areas in Communications, 2015, 33, 585-597.	9.7	32
75	Caching With Time-Varying Popularity Profiles: A Learning-Theoretic Perspective. IEEE Transactions on Communications, 2018, 66, 3837-3847.	4.9	32
76	Deep Convolutional Compression For Massive MIMO CSI Feedback. , 2019, , .		32
77	Coded Caching and Content Delivery With Heterogeneous Distortion Requirements. IEEE Transactions on Information Theory, 2018, 64, 4347-4364.	1.5	31
78	Successive Refinement of Images with Deep Joint Source-Channel Coding. , 2019, , .		31
79	The Best Defense Is a Good Offense: Adversarial Attacks to Avoid Modulation Detection. IEEE Transactions on Information Forensics and Security, 2021, 16, 1074-1087.	4.5	31
80	Federated mmWave Beam Selection Utilizing LIDAR Data. IEEE Wireless Communications Letters, 2021, 10, 2269-2273.	3.2	31
81	Straggler-Aware Distributed Learning: Communication-Computation Latency Trade-Off. Entropy, 2020, 22, 544.	1.1	30
82	Interference networks with caches at both ends. , 2017, , .		29
83	Distributed Hypothesis Testing Over Discrete Memoryless Channels. IEEE Transactions on Information Theory, 2020, 66, 2044-2066.	1.5	29
84	Convergence of Federated Learning Over a Noisy Downlink. IEEE Transactions on Wireless Communications, 2022, 21, 1422-1437.	6.1	29
85	Age-of-Information With Information Source Diversity in an Energy Harvesting System. IEEE Transactions on Green Communications and Networking, 2021, 5, 1529-1540.	3.5	29
86	Outage minimization by opportunistic cooperation. , 0, , .		28
87	Minimum Expected Distortion in Gaussian Layered Broadcast Coding with Successive Refinement. , 2007, , .		28
88	Distributed Gradient Descent with Coded Partial Gradient Computations. , 2019, , .		28
89	Multiple Multicasts With the Help of a Relay. IEEE Transactions on Information Theory, 2010, 56, 6142-6158.	1.5	27
90	Smart meter privacy with renewable energy and a finite capacity battery. , 2016, , .		27

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91	Deep Joint Source-Channel Coding for Wireless Image Retrieval. , 2020, , .		26
92	Recursive Power Allocation in Gaussian Layered Broadcast Coding with Successive Refinement. , 2007, , .		25
93	Federated Edge Learning With Misaligned Over-the-Air Computation. IEEE Transactions on Wireless Communications, 2022, 21, 3951-3964.	6.1	25
94	LIDAR and Position-Aided mmWave Beam Selection With Non-Local CNNs and Curriculum Training. IEEE Transactions on Vehicular Technology, 2022, 71, 2979-2990.	3.9	25
95	Caching and Coded Delivery Over Gaussian Broadcast Channels for Energy Efficiency. IEEE Journal on Selected Areas in Communications, 2018, 36, 1706-1720.	9.7	24
96	Energy harvesting communication networks: Optimization and demonstration (the E-CROPS project). , 2013, , .		23
97	Identification and Lossy Reconstruction in Noisy Databases. IEEE Transactions on Information Theory, 2014, 60, 822-831.	1.5	23
98	Source-Channel Coding Under Energy, Delay, and Buffer Constraints. IEEE Transactions on Wireless Communications, 2015, 14, 3836-3849.	6.1	23
99	Non-Orthogonal Unicast and Broadcast Transmission via Joint Beamforming and LDM in Cellular Networks. , 2016, , .		23
100	Privacy-Aware Time-Series Data Sharing With Deep Reinforcement Learning. IEEE Transactions on Information Forensics and Security, 2021, 16, 389-401.	4.5	23
101	Deep Joint Source-channel Coding for Wireless Image Transmission. , 2019, , .		22
102	Privacy Against a Hypothesis Testing Adversary. IEEE Transactions on Information Forensics and Security, 2019, 14, 1567-1581.	4.5	22
103	Time-Correlated Sparsification for Communication-Efficient Federated Learning. , 2021, , .		22
104	Source-Channel Coding Theorems for the Multiple-Access Relay Channel. IEEE Transactions on Information Theory, 2013, 59, 5446-5465.	1.5	21
105	Gradient Coding with Clustering and Multi-Message Communication. , 2019, , .		21
106	Computation Scheduling for Distributed Machine Learning with Stragglers. , 2019, , .		21
107	Communication without Interception: Defense against Modulation Detection. , 2019, , .		21
108	Reliable Cooperative Source Transmission with Side Information. , 2007, , .		20

#	ARTICLE	IF	CITATIONS
109	Low-complexity scheduling policies for energy harvesting communication networks. , 2013, , .		20
110	Decentralized coded caching with distinct cache capacities. , 2016, , .		20
111	Energy-Distortion Exponents in Lossy Transmission of Gaussian Sources Over Gaussian Channels. IEEE Transactions on Information Theory, 2017, 63, 1227-1236.	1.5	20
112	Content Caching and Delivery in Wireless Radio Access Networks. IEEE Transactions on Communications, 2019, 67, 4724-4749.	4.9	20
113	Decentralized SGD with Over-the-Air Computation. , 2020, , .		20
114	Reliable Joint Source-Channel Cooperative Transmission Over Relay Networks. IEEE Transactions on Information Theory, 2013, 59, 2442-2458.	1.5	19
115	Joint transmission and caching policy design for energy minimization in the wireless backhaul link. , 2015, , .		19
116	Coded Caching With Asymmetric Cache Sizes and Link Qualities: The Two-User Case. IEEE Transactions on Communications, 2019, 67, 6112-6126.	4.9	19
117	Privacy-cost Trade-off in a Smart Meter System with a Renewable Energy Source and a Rechargeable Battery. , 2019, , .		19
118	Coded Caching in a Multi-Server System With Random Topology. IEEE Transactions on Communications, 2020, 68, 4620-4631.	4.9	19
119	Deep Learning for Massive MIMO Channel State Acquisition and Feedback. Journal of the Indian Institute of Science, 2020, 100, 369-382.	0.9	19
120	Mobility-Aware Coded Storage and Delivery. IEEE Transactions on Communications, 2020, 68, 3275-3285.	4.9	18
121	Distortion Exponent of MIMO Fading Channels. , 0, , .		17
122	Wyner-Ziv coding over broadcast channels using hybrid digital/analog transmission. , 2008, , .		17
123	SparseCast: Hybrid Digital-Analog Wireless Image Transmission Exploiting Frequency-Domain Sparsity. IEEE Communications Letters, 2018, 22, 2451-2454.	2.5	17
124	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
125	Distributed hypothesis testing over noisy channels. , 2017, , .		16
126	Coded caching in a multi-server system with random topology. , 2018, , .		16

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127	Joint source-channel cooperation: diversity versus spectral efficiency. , 0, , .		15
128	Smart meter privacy in the presence of an alternative energy source. , 2013, , .		15
129	Channel Sensing and Communication Over a Time-Correlated Channel With an Energy Harvesting Transmitter. IEEE Transactions on Green Communications and Networking, 2018, 2, 114-126.	3.5	15
130	Coded Caching with Heterogeneous Cache Sizes and Link Qualities: The Two-User Case. , 2018, , .		15
131	Distributed Deep Reinforcement Learning for Functional Split Control in Energy Harvesting Virtualized Small Cells. IEEE Transactions on Sustainable Computing, 2021, 6, 626-640.	2.2	15
132	CNN-Based Analog CSI Feedback in FDD MIMO-OFDM Systems. , 2020, , .		15
133	Distortion Exponent of Parallel Fading Channels. , 2006, , .		14
134	Outage Capacity of Incremental Relaying at Low Signal-to-Noise Ratios. , 2009, , .		14
135	Delay-constrained distortion minimization for energy harvesting transmission over a fading channel. , 2013, , .		14
136	Smart meter privacy with an energy harvesting device and instantaneous power constraints. , 2015, , .		14
137	Optimization of Energy Harvesting MISO Communication System With Feedback. IEEE Journal on Selected Areas in Communications, 2015, 33, 396-406.	9.7	14
138	On Perfect Privacy. , 2018, , .		14
139	Heterogeneous Coded Computation across Heterogeneous Workers. , 2019, , .		14
140	Optimal Privacy-Utility Trade-off under a Rate Constraint. , 2019, , .		14
141	FedADC: Accelerated Federated Learning with Drift Control. , 2021, , .		14
142	Age-Based Coded Computation for Bias Reduction in Distributed Learning. , 2020, , .		14
143	Metalearning-Based Alternating Minimization Algorithm for Nonconvex Optimization. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 5366-5380.	7.2	14
144	On the capacity region of a multiple access channel with common messages. , 2010, , .		13

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145	Deep Joint Source-Channel Coding of Images with Feedback. , 2020, , .		13
146	Data Disclosure Under Perfect Sample Privacy. IEEE Transactions on Information Forensics and Security, 2020, 15, 2012-2025.	4.5	13
147	On Perfect Privacy. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 177-191.	1.9	13
148	Smart meter privacy in the presence of energy harvesting and storage devices. , 2012, , .		12
149	Privacy of smart meter systems with an alternative energy source. , 2013, , .		12
150	Optimal packet scheduling for an energy harvesting transmitter with processing cost. , 2013, , .		12
151	Distributed Hypothesis Testing Under Privacy Constraints. , 2018, , .		12
152	Resource allocation for cooperative relaying. , 2008, , .		11
153	Proactive wireless caching at mobile user devices for energy efficiency. , 2015, , .		11
154	Joint Source-Channel Coding With Time-Varying Channel and Side-Information. IEEE Transactions on Information Theory, 2016, 62, 736-753.	1.5	11
155	Gaussian Multiple Access Channels with One-Bit Quantizer at the Receiver. Entropy, 2018, 20, 686.	1.1	11
156	Meta-learning Based Beamforming Design for MISO Downlink. , 2021, , .		11
157	Federated Edge Learning with Misaligned Over-The-Air Computation. , 2021, , .		11
158	Secure Distributed Matrix Computation With Discrete Fourier Transform. IEEE Transactions on Information Theory, 2022, 68, 4666-4680.	1.5	11
159	Layered cooperative source and channel coding. , 0, , .		10
160	Diversity-Multiplexing Tradeoffs in MIMO Relay Channels. , 2008, , .		10
161	Successive Refinement of Vector Sources Under Individual Distortion Criteria. IEEE Transactions on Information Theory, 2010, 56, 1769-1781.	1.5	10
162	Optimum power level for communications with interference. , 2013, , .		10

#	ARTICLE	IF	CITATIONS
163	Centralized coded caching for heterogeneous lossy requests. , 2016, , .		10
164	Cache-aided fog radio access networks with partial connectivity. , 2018, , .		10
165	Strong Converse for Testing Against Independence over a Noisy channel. , 2020, , .		10
166	Coded Distributed Computing With Partial Recovery. IEEE Transactions on Information Theory, 2022, 68, 1945-1959.	1.5	10
167	Source and crannel coding for cooperative relaying. , 0, , .		9
168	Lossless Transmission of Correlated Sources over a Multiple Access Channel with Side Information. , 2007, , .		9
169	Multihop MIMO Relay Networks with ARQ. , 2009, , .		9
170	Variable-power scheduling for perpetual target coverage in energy harvesting wireless sensor networks. , 2015, , .		9
171	A Low-Complexity Policy for Outage Probability Minimization With an Energy Harvesting Transmitter. IEEE Communications Letters, 2017, 21, 917-920.	2.5	9
172	Decentralized caching and coded delivery over Gaussian broadcast channels. , 2017, , .		9
173	Smart meter privacy based on adversarial hypothesis testing. , 2017, , .		9
174	Joint optimization of transmission and propulsion in aerial communication networks. , 2017, , .		9
175	Private Wireless Federated Learning with Anonymous Over-the-Air Computation. , 2021, , .		9
176	Speeding Up Private Distributed Matrix Multiplication via Bivariate Polynomial Codes. , 2021, , .		9
177	Interference Channels With Correlated Receiver Side Information. IEEE Transactions on Information Theory, 2010, 56, 5984-5998.	1.5	8
178	Hybrid Digital-Analog Transmission for the Gaussian One-Helper Problem. , 2010, , .		8
179	Expected Distortion with Fading Channel and Side Information Quality. , 2011, , .		8
180	On Joint Source-Channel Coding for Correlated Sources Over Multiple-Access Relay Channels. IEEE Transactions on Information Theory, 2014, 60, 6231-6253.	1.5	8

#	ARTICLE	IF	CITATIONS
181	The multi-layer information bottleneck problem. , 2017, , .		8
182	Latent Feature Disclosure under Perfect Sample Privacy. , 2018, , .		8
183	Optimal Utility-Privacy Trade-off with Total Variation Distance as a Privacy Measure. , 2018, , .		8
184	Energy-efficient communication in mobile aerial relay-assisted networks using predictive control. IFAC-PapersOnLine, 2018, 51, 197-202.	0.5	8
185	Reinforcement Learning for Proactive Caching of Contents with Different Demand Probabilities. , 2018, , .		8
186	Adversarial Networks for Secure Wireless Communications. , 2020, , .		8
187	Bivariate Polynomial Coding for Efficient Distributed Matrix Multiplication. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 814-829.	1.9	8
188	Source Transmission over Relay Channel with Correlated Relay Side Information. , 2007, , .		7
189	Energy efficient lossy transmission over sensor networks with feedback. , 2010, , .		7
190	Distortion exponent in fading MIMO channels with time-varying side information. , 2011, , .		7
191	Energy harvesting communication system with battery constraint and leakage. , 2011, , .		7
192	Throughput Analysis in Asymmetric Two-Way Relay Channel with Random Access. , 2011, , .		7
193	A learning theoretic approach to energy harvesting communication system optimization. , 2012, , .		7
194	Streaming Transmission over Block Fading Channels with Delay Constraint. IEEE Transactions on Wireless Communications, 2013, 12, 4315-4327.	6.1	7
195	Optimal demand-side management for joint privacy-cost optimization with energy storage. , 2017, , .		7
196	Cache-aided data delivery over erasure broadcast channels. , 2017, , .		7
197	Privacy-Aware Distributed Hypothesis Testing. Entropy, 2020, 22, 665.	1.1	7
198	Active Privacy-Utility Trade-Off Against A Hypothesis Testing Adversary. , 2021, , .		7

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199	Bivariate Hermitian Polynomial Coding for Efficient Distributed Matrix Multiplication. , 2020, , .		7
200	A Learning-Aided Flexible Gradient Descent Approach to MISO Beamforming. IEEE Wireless Communications Letters, 2022, 11, 1895-1899.	3.2	7
201	Correlated Sources over an Asymmetric Multiple Access Channel with One Distortion Criterion. , 2007, , .		6
202	Distributed compression and transmission with energy harvesting sensors. , 2015, , .		6
203	Optimal privacy-cost trade-off in demand-side management with storage. , 2015, , .		6
204	Centralized caching and delivery of correlated contents over a Gaussian broadcast channel. , 2018, , .		6
205	Privacy Against Brute-Force Inference Attacks. , 2019, , .		6
206	Smart Meter Privacy. , 2020, , 19-41.		6
207	On Perfect Obfuscation: Local Information Geometry Analysis. , 2020, , .		6
208	Wyner-Ziv coding over broadcast channels. , 2008, , .		5
209	Relaying simultaneous multicasts via structured codes. , 2009, , .		5
210	Joint source-channel coding for the multiple-access relay channel. , 2012, , .		5
211	Capacity region of a one-bit quantized Gaussian multiple access channel. , 2017, , .		5
212	Audience retention rate aware coded video caching. , 2017, , .		5
213	On the Capacity Region of a Cache-Aided Gaussian Broadcast Channel with Multi-Layer Messages. , 2018, , .		5
214	Testing Against Conditional Independence Under Security Constraints. , 2018, , .		5
215	Considering Time Correlation in the Estimation of Privacy Loss for Consumers with Smart Meters. , 2018, , .		5
216	Automatic Modulation Classification in the Presence of Interference. , 2019, , .		5

#	ARTICLE	IF	CITATIONS
217	Average Age-of-Information with a Backup Information Source. , 2019, , .		5
218	Multicast-Aware Proactive Caching in Wireless Networks with Deep Reinforcement Learning. , 2019, , .		5
219	Fedrec: Federated Learning of Universal Receivers Over Fading Channels. , 2021, , .		5
220	Source Coding under Secrecy Constraints. , 2009, , 173-199.		5
221	Cooperative relaying in sensor networks. , 2010, , .		5
222	Storage-Repair Bandwidth Trade-off for Wireless Caching with Partial Failure and Broadcast Repair. , 2018, , .		5
223	One-Bit Over-the-Air Aggregation for Communication-Efficient Federated Edge Learning. , 2020, , .		5
224	Coded Computation Across Shared Heterogeneous Workers With Communication Delay. IEEE Transactions on Signal Processing, 2022, 70, 3371-3385.	3.2	5
225	Interference Channel and Compound MAC with Correlated Sources and Receiver Side Information. , 2007, , .		4
226	Dynamic Resource Allocation For The Broadband Relay Channel. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	4
227	Compound relay channel with informed relay and destination. , 2009, , .		4
228	Capacity results for a class of deterministic Z-interference channels with unidirectional receiver conferencing. , 2011, , .		4
229	Collision resolution in multiple access networks with physical-layer network coding and distributed fountain coding. , 2011, , .		4
230	Source-channel coding for the multiple-access relay channel. , 2011, , .		4
231	Optimizing feedback in energy harvesting MISO communication channels. , 2013, , .		4
232	Energy-distortion tradeoff for the gaussian broadcast channel with feedback. , 2016, , .		4
233	Distortion Exponent in MIMO Fading Channels With Time-Varying Source Side Information. IEEE Transactions on Information Theory, 2016, 62, 3597-3617.	1.5	4
234	Capacity of a Class of State-Dependent Orthogonal Relay Channels. IEEE Transactions on Information Theory, 2016, 62, 1280-1295.	1.5	4

#	ARTICLE	IF	CITATIONS
235	Improved policy representation and policy search for proactive content caching in wireless networks. , 2017, , .		4
236	On the conditional entropy of wireless networks. , 2018, , .		4
237	Audience-Retention-Rate-Aware Caching and Coded Video Delivery With Asynchronous Demands. IEEE Transactions on Communications, 2019, 67, 7088-7102.	4.9	4
238	Guest Editorial Special Issue on Machine Learning in Wireless Communicationâ€”Part I. IEEE Journal on Selected Areas in Communications, 2019, 37, 2181-2183.	9.7	4
239	Privacy-Aware Location Sharing with Deep Reinforcement Learning. , 2019, , .		4
240	Cache-Aided Combination Networks With Interference. IEEE Transactions on Wireless Communications, 2020, 19, 148-161.	6.1	4
241	Centralized Caching and Delivery of Correlated Contents Over Gaussian Broadcast Channels. IEEE Transactions on Communications, 2020, 68, 122-136.	4.9	4
242	Multi-Antenna Coded Content Delivery With Caching: A Low-Complexity Solution. IEEE Transactions on Wireless Communications, 2020, 19, 7484-7497.	6.1	4
243	Dynamic Content Updates in Heterogeneous Wireless Networks. , 2019, , .		4
244	Remote Reinforcement Learning over a Noisy Channel. , 2020, , .		4
245	Privacyâ€”cost tradeâ€”offs in smart electricity metering systems. IET Smart Grid, 2020, 3, 596-604.	1.5	4
246	Fast Federated Edge Learning with Overlapped Communication and Computation and Channel-Aware Fair Client Scheduling. , 2021, , .		4
247	Bivariate Polynomial Codes for Secure Distributed Matrix Multiplication. IEEE Journal on Selected Areas in Communications, 2022, 40, 955-967.	9.7	4
248	Transmission of Correlated Sources Over Multiuser Channels with Receiver Side Information. , 2007, , .		3
249	Lossy source transmission over the relay channel. , 2008, , .		3
250	Relaying simultaneous multicast messages. , 2009, , .		3
251	Distortion exponent in MIMO channels with feedback. , 2009, , .		3
252	Outage capacity of bursty amplify-and-forward with incremental relaying. , 2010, , .		3

#	ARTICLE	IF	CITATIONS
253	Gaussian two-way relay channel with arbitrary inputs. , 2010, , .		3
254	Energy-distortion tradeoffs in multiple-access channels with feedback. , 2010, , .		3
255	Real-time broadcasting over block-fading channels. , 2011, , .		3
256	Capacity of a class of relay channels with state. , 2012, , .		3
257	Information theoretic privacy for smart meters. , 2013, , .		3
258	Uncoded transmission of correlated Gaussian sources over broadcast channels with feedback. , 2014, , .		3
259	Zero-delay joint source-channel coding. , 2014, , .		3
260	Gaussian joint source-channel coding for the strong interference channel. , 2015, , .		3
261	Joint source-channel coding with one-bit ADC front end. , 2016, , .		3
262	Energy harvesting wireless networks with correlated energy sources. , 2016, , .		3
263	Zero-Delay Source-Channel Coding With a Low-Resolution ADC Front End. IEEE Transactions on Information Theory, 2018, 64, 1241-1261.	1.5	3
264	Delay-Aware Coded Caching for Mobile Users. , 2018, , .		3
265	Social learning for resilient data fusion against data falsification attacks. Computational Social Networks, 2018, 5, 10.	2.1	3
266	Guest Editorial Special Issue on Machine Learning in Wireless Communicationâ€™Part 2. IEEE Journal on Selected Areas in Communications, 2019, 37, 2409-2412.	9.7	3
267	Hypothesis Testing over a Noisy Channel. , 2019, , .		3
268	Series Editorial: Inauguration Issue of the Series on Machine Learning in Communications and Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 1-3.	9.7	3
269	Gradient Coding with Dynamic Clustering for Straggler Mitigation. , 2021, , .		3
270	Privacy-Aware Communication over a Wiretap Channel with Generative Networks. , 2022, , .		3

#	ARTICLE	IF	CITATIONS
271	Uncoded Caching and Cross-Level Coded Delivery for Non-Uniform File Popularity. IEEE Transactions on Information Theory, 2022, 68, 6842-6859.	1.5	3
272	Semi-Federated Learning: An Integrated Framework for Pervasive Intelligence in 6G Networks. , 2022, , .		3
273	Neural Distributed Image Compression Using Common Information. , 2022, , .		3
274	Interference channels with correlated receiver side information. , 2008, , .		2
275	Throughput and delay analysis in video streaming over block-fading channels. , 2013, , .		2
276	On the asymptotic distortion-energy tradeoff for zero-delay transmission of a Gaussian source over the AWGN channel. , 2015, , .		2
277	On the distortion-energy tradeoff for zero-delay transmission of a Gaussian source over the AWGN channel. , 2015, , .		2
278	Zero-delay joint source-channel coding in the presence of interference known at the encoder. , 2015, , .		2
279	Linear Transmission of Composite Gaussian Measurements Over a Fading Channel Under Delay Constraints. IEEE Transactions on Wireless Communications, 2016, 15, 4335-4347.	6.1	2
280	Zero-delay joint source-channel coding with a 1-bit ADC front end and receiver side information. , 2016, , .		2
281	Zero-Delay Joint Source-Channel Coding in the Presence of Interference Known at the Encoder. IEEE Transactions on Communications, 2016, 64, 3311-3322.	4.9	2
282	Finite-Length Linear Schemes for Joint Source-Channel Coding over Gaussian Broadcast Channels with Feedback. IEEE Transactions on Information Theory, 2017, , 1-1.	1.5	2
283	Energy-efficient wireless content delivery with proactive caching. , 2017, , .		2
284	A Low-Complexity Cache-Aided Multi-Antenna Content Delivery Scheme. , 2019, , .		2
285	Practical Functional Regenerating Codes for Broadcast Repair of Multiple Nodes. , 2019, , .		2
286	Bivariate Polynomial Coding for Straggler Exploitation with Heterogeneous Workers. , 2020, , .		2
287	Variational Leakage. , 2021, , .		2
288	Context-Aware Effective Communications. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
289	Identification over multiple databases. , 2009, , .		1
290	Identification and lossy reconstruction in noisy databases. , 2010, , .		1
291	Mixed joint source-channel coding schemes for multiple-access-relay channels. , 2012, , .		1
292	Systematic lossy source transmission over Gaussian time-varying channels. , 2013, , .		1
293	Distortion exponent with side-information diversity. , 2013, , .		1
294	Smart meter privacy for multiple users in the presence of an alternative energy source. , 2013, , .		1
295	Delay constrained linear transmission of random state measurements. , 2014, , .		1
296	Correlated Gaussian sources over Gaussian weak interference channels. , 2015, , .		1
297	On the transmission of a bivariate Gaussian source over the Gaussian broadcast channel with feedback. , 2015, , .		1
298	Delay constrained linear transmission of a mixture of Gaussian measurements over a fading channel. , 2015, , .		1
299	Throughput and Delay Analysis in Video Streaming Over Block-Fading Channels. IEEE Transactions on Communications, 2015, 63, 5206-5217.	4.9	1
300	On lossy transmission of correlated sources over a multiple access channel. , 2016, , .		1
301	Zero-Delay Source-Channel Coding With a 1-Bit ADC Front End and Correlated Receiver Side Information. IEEE Transactions on Communications, 2017, 65, 5429-5444.	4.9	1
302	Communication over a time correlated channel with an energy harvesting transmitter. , 2017, , .		1
303	Energy-Optimal Control in Mobile Aerial Relay-Assisted Networks. , 2018, , .		1
304	Lossy Coding of Correlated Sources Over a Multiple Access Channel: Necessary Conditions and Separation Results. IEEE Transactions on Information Theory, 2018, 64, 6081-6097.	1.5	1
305	Information Transmission Bounds Between Moving Terminals. IEEE Communications Letters, 2020, 24, 1410-1413.	2.5	1
306	Series Editorial: The Second Issue of the Series on Machine Learning in Communications and Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 1855-1857.	9.7	1

#	ARTICLE	IF	CITATIONS
307	Guest Editorial Special Issue on Distributed Learning Over Wireless Edge Networksâ€™Part I. IEEE Journal on Selected Areas in Communications, 2021, 39, 3575-3578.	9.7	1
308	Functional Broadcast Repair of Multiple Partial Failures in Wireless Distributed Storage Systems. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 1093-1107.	1.9	1
309	Learning to Speak on Behalf of a Group: Medium Access Control for Sending a Shared Message. IEEE Communications Letters, 2022, 26, 1843-1847.	2.5	1
310	Successive Refinement of Vector Sources under Individual Distortion Criteria. , 2007, , .		0
311	Compound multiple access channels with conferencing decoders. , 2008, , .		0
312	Energy-distortion tradeoff with multiple sources and feedback. , 2010, , .		0
313	Wireless source transmission with time-varying side information. , 2011, , .		0
314	On necessary conditions for multiple-access-relay channels with correlated sources. , 2013, , .		0
315	Delay limited transmission of a uniform source over an AWGN channel. , 2015, , .		0
316	Fundamental limits of latency in a cache-aided 4Ã—4 interference channel. , 2017, , .		0
317	On the necessary conditions for transmitting correlated sources over a multiple access channel. , 2017, , .		0
318	On the Energy-Distortion Tradeoff of Gaussian Broadcast Channels with Feedback. Entropy, 2017, 19, 243.	1.1	0
319	Polar Codes and Polar Lattices for the Heegardâ€™Berger Problem. IEEE Transactions on Communications, 2018, 66, 3760-3771.	4.9	0
320	Information Transmission Bounds in Mobile Communication Networks. , 2018, , .		0
321	Cache-Aided Interactive Multiview Video Streaming in Small Cell Wireless Networks. , 2018, , .		0
322	Accuracy-awareness: A pessimistic approach to optimal control of triggered mobile communication networks. IFAC-PapersOnLine, 2021, 54, 296-301.	0.5	0
323	Series Editorial: The Third Issue of the Series on Machine Learning in Communications and Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 2267-2270.	9.7	0
324	Guest Editorial Special Issue on Distributed Learning Over Wireless Edge Networksâ€™Part II. IEEE Journal on Selected Areas in Communications, 2022, 40, 445-448.	9.7	0

#	ARTICLE	IF	CITATIONS
325	JSAIT Editorial for the Special Issue on "Beyond Errors and Erasures: Coding for Data Management and Delivery in Networks" IEEE Journal on Selected Areas in Information Theory, 2021, 2, 1075-1077.	1.9	0
326	The Fifth Issue of the Series on Machine Learning in Communications and Networks. IEEE Journal on Selected Areas in Communications, 2022, 40, 2251-2253.	9.7	0