Jun Chen

List of Publications by Year
in descending order

69 papers	1,662 citations	331538 21 h-index	395590 33 g-index
69 all docs	69 docs citations	69 times ranked	904 citing authors

#	Article	IF	Citations
1	GridDehazeNet: Attention-Based Multi-Scale Network for Image Dehazing. , 2019, , .		411
2	An Upper Bound on the Sum-Rate Distortion Function and Its Corresponding Rate Allocation Schemes for the CEO Problem. IEEE Journal on Selected Areas in Communications, 2004, 22, 977-987.	9.7	117
3	Capacity-Achieving Private Information Retrieval Codes With Optimal Message Size and Upload Cost. IEEE Transactions on Information Theory, 2019, 65, 7613-7627.	1.5	84
4	Single Image Dehazing with a Generic Model-Agnostic Convolutional Neural Network. IEEE Signal Processing Letters, 2019, 26, 833-837.	2.1	76
5	On the Sum Rate of Gaussian Multiterminal Source Coding: New Proofs and Results. IEEE Transactions on Information Theory, 2010, 56, 3946-3960.	1.5	71
6	Multiple Description Quantization Via Gramâ€"Schmidt Orthogonalization. IEEE Transactions on Information Theory, 2006, 52, 5197-5217.	1.5	58
7	PSCC-Net: Progressive Spatio-Channel Correlation Network for Image Manipulation Detection and Localization. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 7505-7517.	5.6	55
8	Caching and Delivery via Interference Elimination. IEEE Transactions on Information Theory, 2018, 64, 1548-1560.	1.5	47
9	Successive Wyner&#x2013;Ziv Coding Scheme and Its Application to the Quadratic Gaussian CEO Problem. IEEE Transactions on Information Theory, 2008, 54, 1586-1603.	1.5	44
10	Underwater Image Restoration Based on a Parallel Convolutional Neural Network. Remote Sensing, 2019, 11, 1591.	1.8	42
11	Remote Vector Gaussian Source Coding With Decoder Side Information Under Mutual Information and Distortion Constraints. IEEE Transactions on Information Theory, 2009, 55, 4676-4680.	1.5	38
12	On the Optimal Fronthaul Compression and Decoding Strategies for Uplink Cloud Radio Access Networks. IEEE Transactions on Information Theory, 2016, 62, 7402-7418.	1.5	38
13	Caching and delivery via interference elimination. , 2016, , .		37
14	Rate Region of Gaussian Multiple Description Coding With Individual and Central Distortion Constraints. IEEE Transactions on Information Theory, 2009, 55, 3991-4005.	1.5	35
15	Video Frame Interpolation via Generalized Deformable Convolution. IEEE Transactions on Multimedia, 2022, 24, 426-439.	5.2	32
16	New Coding Schemes for the Symmetric K-Description Problem. IEEE Transactions on Information Theory, 2010, 56, 5344-5365.	1.5	29
17	Joint Component Design for the JSCC System Based on DP-LDPC Codes. IEEE Transactions on Communications, 2020, 68, 5808-5818.	4.9	29
18	Successive Coding in Multiuser Information Theory. IEEE Transactions on Information Theory, 2007, 53, 2246-2254.	1.5	26

#	Article	IF	Citations
19	AIM 2020 Challenge on Learned Image Signal Processing Pipeline. Lecture Notes in Computer Science, 2020, , 152-170.	1.0	26
20	On the Role of the Refinement Layer in Multiple Description Coding and Scalable Coding. IEEE Transactions on Information Theory, 2011, 57, 1443-1456.	1.5	25
21	Vector Gaussian Two-Terminal Source Coding. IEEE Transactions on Information Theory, 2013, 59, 3693-3708.	1.5	25
22	A Shannon-Theoretic Approach to the Storage-Retrieval Tradeoff in PIR Systems. , 2018, , .		25
23	AWNet: Attentive Wavelet Network for Image ISP. Lecture Notes in Computer Science, 2020, , 185-201.	1.0	25
24	Vector Gaussian Multiterminal Source Coding. IEEE Transactions on Information Theory, 2014, 60, 5533-5552.	1.5	24
25	Exploit Camera Raw Data for Video Super- Resolution via Hidden Markov Model Inference. IEEE Transactions on Image Processing, 2021, 30, 2127-2140.	6.0	21
26	The equivalence between slepian-wolf coding and channel coding under density evolution. IEEE Transactions on Communications, 2009, 57, 2534-2540.	4.9	19
27	End-To-End Trainable Video Super-Resolution Based on a New Mechanism for Implicit Motion Estimation and Compensation. , 2020, , .		16
28	Matched Multiuser Gaussian Source Channel Communications via Uncoded Schemes. IEEE Transactions on Information Theory, 2017, 63, 4155-4171.	1.5	15
29	Achieving the rate-distortion bound with low-density generator matrix codes. IEEE Transactions on Communications, 2010, 58, 1643-1653.	4.9	14
30	A Lower Bound on the Sum Rate of Multiple Description Coding With Symmetric Distortion Constraints. IEEE Transactions on Information Theory, 2014, 60, 7547-7567.	1.5	14
31	A Source-Channel Separation Theorem With Application to the Source Broadcast Problem. IEEE Transactions on Information Theory, 2016, 62, 1764-1781.	1.5	14
32	Broadcasting Correlated Vector Gaussians. IEEE Transactions on Information Theory, 2015, 61, 2465-2477.	1.5	12
33	Learning for Unconstrained Space-Time Video Super-Resolution. IEEE Transactions on Broadcasting, 2022, 68, 345-358.	2.5	12
34	Capacity and Nonuniform Signaling for Discrete-Time Poisson Channels. Journal of Optical Communications and Networking, 2013, 5, 329.	3.3	10
35	Analysis and Code Design for the Binary CEO Problem Under Logarithmic Loss. IEEE Transactions on Communications, 2018, 66, 6003-6014.	4.9	9
36	Gaussian Robust Sequential and Predictive Coding. IEEE Transactions on Information Theory, 2013, 59, 3635-3652.	1.5	8

#	ARTICLE	IF	CITATIONS
37	On the Optimality of the Greedy Policy for Battery Limited Energy Harvesting Communication. , 2019, , .		7
38	Energy-Aware Dynamic Trajectory Planning for UAV-Enabled Data Collection in mMTC Networks. IEEE Transactions on Green Communications and Networking, 2022, 6, 1957-1971.	3.5	7
39	The Optimal Power Control Policy for an Energy Harvesting System with Look-Ahead: Bernoulli Energy Arrivals. , 2019, , .		6
40	Binary CEO Problem under Log-Loss with BSC Test-Channel Model. , 2018, , .		5
41	A Maximin Optimal Online Power Control Policy for Energy Harvesting Communications. IEEE Transactions on Wireless Communications, 2020, 19, 6708-6720.	6.1	5
42	When is Noisy State Information at the Encoder as Useless as No Information or as Good as Noise-Free State?. IEEE Transactions on Information Theory, 2017, 63, 960-974.	1.5	4
43	The Sum Rate of Vector Gaussian Multiple Description Coding With Tree-Structured Covariance Distortion Constraints. IEEE Transactions on Information Theory, 2017, 63, 6547-6560.	1.5	4
44	Asymptotic Rate-Distortion Analysis of Symmetric Remote Gaussian Source Coding: Centralized Encoding vs. Distributed Encoding. Entropy, 2019, 21, 213.	1.1	4
45	Capacity-Achieving Private Information Retrieval Codes with Optimal Message Size and Upload Cost. , 2019, , .		4
46	Single Shot Multibox Detector With Deconvolutional Region Magnification Procedure. IEEE Access, 2021, 9, 47767-47776.	2.6	4
47	Successive Wyner-Ziv Coding for the Binary CEO Problem under Log-Loss. , 2018, , .		3
48	Lattice-Based Robust Distributed Source Coding. IEEE Transactions on Information Theory, 2019, 65, 1764-1781.	1.5	3
49	Successive Wyner-Ziv Coding for the Binary CEO Problem Under Logarithmic Loss. IEEE Transactions on Communications, 2019, 67, 7512-7525.	4.9	3
50	Robust Distributed Compression of Symmetrically Correlated Gaussian Sources. IEEE Transactions on Communications, 2019, 67, 2343-2354.	4.9	3
51	A Truncated Prediction Framework for Streaming Over Erasure Channels. IEEE Transactions on Information Theory, 2017, 63, 7322-7351.	1.5	2
52	Index Mapping for Bit-Error Resilient Multiple Description Lattice Vector Quantizer. IEEE Transactions on Communications, 2018, 66, 3638-3652.	4.9	2
53	A Monotone Path Proof of an Extremal Result for Long Markov Chains. Entropy, 2019, 21, 276.	1.1	2
54	Vector Gaussian Successive Refinement With Degraded Side Information. IEEE Transactions on Information Theory, 2021, 67, 6963-6982.	1.5	2

#	Article	IF	Citations
55	Indirect Domain Shift for Single Image Dehazing. IEEE Access, 2021, 9, 122959-122970.	2.6	2
56	Decoding Polar Codes for a Generalized Gilbert-Elliott Channel With Unknown Parameter. IEEE Transactions on Communications, 2021, 69, 6455-6468.	4.9	2
57	A Geometric Property of Relative Entropy and the Universal Threshold Phenomenon for Binary-Input Channels with Noisy State Information at the Encoder. , 2018, , .		1
58	Lattice-based Robust Distributed Source Coding for Three Correlated Sources. , 2019, , .		1
59	On the Optimality of the Greedy Policy for Battery Limited Energy Harvesting Communications. IEEE Transactions on Information Theory, 2021, 67, 6548-6563.	1.5	1
60	On Optimal Power Control for Energy Harvesting Communications With Lookahead. IEEE Transactions on Wireless Communications, 2022, 21, 4054-4067.	6.1	1
61	Enabling Trimap-Free Image Matting with a Frequency-Guided Saliency-Aware Network via Joint Learning. IEEE Transactions on Multimedia, 2022, , 1-13.	5.2	1
62	Extremal Results for the Relative-Entropy Ratio of Collinear Probability Distributions. , 2019, , .		0
63	Intrinsic Capacity. IEEE Transactions on Information Theory, 2019, 65, 1345-1360.	1.5	0
64	Lattice-Based Robust Distributed Source Coding for Three Correlated Sources. IEEE Transactions on Communications, 2020, 68, 4089-4103.	4.9	0
65	Generalized Gaussian Multiterminal Source Coding: The Symmetric Case. IEEE Transactions on Information Theory, 2020, 66, 2115-2128.	1.5	0
66	Generalized Gaussian Multiterminal Source Coding in the High-Resolution Regime. IEEE Transactions on Communications, 2020, 68, 3782-3791.	4.9	0
67	Error Probability of Distributed Arithmetic Coding. IEEE Communications Letters, 2021, , 1-1.	2.5	0
68	Image Retrieval via Canonical Correlation Analysis and Binary Hypothesis Testing. Information (Switzerland), 2022, 13, 106.	1.7	0
69	On Distributed Lossy Coding of Symmetrically Correlated Gaussian Sources. , 2022, , .		0