

Kannan Ramchandran

List of Publications by Year in Descending Order

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

76 papers	3,073 citations	22 h-index	55 g-index
82 ext. papers	3,869 ext. citations	4.7 avg, IF	5.4 L-index

#	Paper	IF	Citations
76	Adaptive Douglas--Rachford Splitting Algorithm from a Yosida Approximation Standpoint. <i>SIAM Journal on Optimization</i> , 2021 , 31, 1971-1998	2	0
75	Communication-Efficient and Byzantine-Robust Distributed Learning With Error Feedback. <i>IEEE Journal on Selected Areas in Information Theory</i> , 2021 , 2, 942-953	2.5	1
74	Epistatic Net allows the sparse spectral regularization of deep neural networks for inferring fitness functions. <i>Nature Communications</i> , 2021 , 12, 5225	17.4	5
73	Communication-Efficient Gradient Coding for Straggler Mitigation in Distributed Learning 2020 ,		5
72	CRISPRL and: Interpretable large-scale inference of DNA repair landscape based on a spectral approach. <i>Bioinformatics</i> , 2020 , 36, i560-i568	7.2	5
71	SAFFRON: A Fast, Efficient, and Robust Framework for Group Testing Based on Sparse-Graph Codes. <i>IEEE Transactions on Signal Processing</i> , 2019 , 67, 4649-4664	4.8	7
70	A Real-Time, 1.89-GHz Bandwidth, 175-kHz Resolution Sparse Spectral Analysis RISC-V SoC in 16-nm FinFET. <i>IEEE Journal of Solid-State Circuits</i> , 2019 , 54, 1993-2008	5.5	2
69	A Fast and Robust Paradigm for Fourier Compressed Sensing Based on Coded Sampling 2019 ,		4
68	. <i>IEEE Transactions on Information Theory</i> , 2019 , 65, 6580-6619	2.8	8
67	Gradient Coding Based on Block Designs for Mitigating Adversarial Stragglers 2019 ,		13
66	Low-degree Pseudo-Boolean Function Recovery Using Codes 2019 ,		1
65	A Real-Time, Analog/Digital Co-Designed 1.89-GHz Bandwidth, 175-kHz Resolution Sparse Spectral Analysis RISC-V SoC in 16-nm FinFET 2018 ,		2
64	. <i>IEEE Transactions on Information Theory</i> , 2017 , 63, 3663-3691	2.8	25
63	. <i>IEEE Transactions on Information Theory</i> , 2017 , 63, 6679-6713	2.8	15
62	Perturbed Iterate Analysis for Asynchronous Stochastic Optimization. <i>SIAM Journal on Optimization</i> , 2017 , 27, 2202-2229	2	23
61	Asynchronous and noncoherent neighbor discovery for the IoT using sparse-graph codes 2017 ,		4
60	Fast sparse 2-D DFT computation using sparse-graph alias codes 2016 ,		4

59	Metadata-Conscious Anonymous Messaging. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2016 , 1-1	2.8	2
58	Efficient Algorithms for the Data Exchange Problem. <i>IEEE Transactions on Information Theory</i> , 2016 , 62, 1878-1896	2.8	13
57	When Do Redundant Requests Reduce Latency?. <i>IEEE Transactions on Communications</i> , 2016 , 64, 715-726	2.9	60
56	Rumor Source Obfuscation on Irregular Trees. <i>Performance Evaluation Review</i> , 2016 , 44, 153-164	0.4	2
55	Compressed sensing using sparse-graph codes for the continuous-alphabet setting 2016 ,		3
54	SAFFRON: A fast, efficient, and robust framework for group testing based on sparse-graph codes 2016 ,		17
53	. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2015 , 9, 1229-1239	7.5	20
52	Distributed Secret Dissemination Across a Network. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2015 , 9, 1206-1216	7.5	6
51	Low-Complexity Interactive Algorithms for Synchronization From Deletions, Insertions, and Substitutions. <i>IEEE Transactions on Information Theory</i> , 2015 , 61, 5670-5689	2.8	14
50	Spline-Like Wavelet Filterbanks for Multiresolution Analysis of Graph-Structured Data. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2015 , 1, 268-278	2.8	16
49	Sparse covariance estimation based on sparse-graph codes 2015 ,		3
48	On scheduling redundant requests with cancellation overheads 2015 ,		8
47	Capacity-approaching PhaseCode for low-complexity compressive phase retrieval 2015 ,		1
46	PhaseCode: Fast and efficient compressive phase retrieval based on sparse-graph codes 2014 ,		14
45	Multiplexed coded illumination for Fourier Ptychography with an LED array microscope. <i>Biomedical Optics Express</i> , 2014 , 5, 2376-89	3.5	290
44	. <i>IEEE Signal Processing Magazine</i> , 2013 , 30, 95-106	9.4	9
43	Achievable Rates for Channels With Deletions and Insertions. <i>IEEE Transactions on Information Theory</i> , 2013 , 59, 6990-7013	2.8	14
42	. <i>IEEE Transactions on Information Theory</i> , 2013 , 59, 2974-2987	2.8	117

41	. <i>IEEE Signal Processing Magazine</i> , 2013 , 30, 53-61	9.4	15
40	Optimal DNA shotgun sequencing: Noisy reads are as good as noiseless reads 2013 ,		13
39	Distributed Storage Codes With Repair-by-Transfer and Nonachievability of Interior Points on the Storage-Bandwidth Tradeoff. <i>IEEE Transactions on Information Theory</i> , 2012 , 58, 1837-1852	2.8	152
38	A compression algorithm using mis-aligned side-information 2012 ,		9
37	Secrecy via Sources and Channels. <i>IEEE Transactions on Information Theory</i> , 2012 , 58, 6747-6765	2.8	28
36	Cognitive Radio Through Primary Control Feedback. <i>IEEE Journal on Selected Areas in Communications</i> , 2011 , 29, 384-393	14.2	17
35	High-Resolution Distributed Sampling of Bandlimited Fields With Low-Precision Sensors. <i>IEEE Transactions on Information Theory</i> , 2011 , 57, 476-492	2.8	22
34	. <i>IEEE Transactions on Information Theory</i> , 2011 , 57, 1425-1442	2.8	110
33	Hybrid Digital-Analog Codes for Source-Channel Broadcast of Gaussian Sources Over Gaussian Channels. <i>IEEE Transactions on Information Theory</i> , 2011 , 57, 4573-4588	2.8	31
32	Securing Dynamic Distributed Storage Systems Against Eavesdropping and Adversarial Attacks. <i>IEEE Transactions on Information Theory</i> , 2011 , 57, 6734-6753	2.8	108
31	Coding of Image Feature Descriptors for Distributed Rate-efficient Visual Correspondences. <i>International Journal of Computer Vision</i> , 2011 , 94, 267-281	10.6	9
30	Deterministic algorithm for the cooperative data exchange problem 2011 ,		33
29	DRESS codes for the storage cloud: Simple randomized constructions 2011 ,		40
28	Efficient file synchronization: A distributed source coding approach 2011 ,		23
27	Securing dynamic distributed storage systems from malicious nodes 2011 ,		10
26	Interactive low-complexity codes for synchronization from deletions and insertions 2010 ,		16
25	Fractional repetition codes for repair in distributed storage systems 2010 ,		84
24	Dithered A/D Conversion of Smooth Non-Bandlimited Signals. <i>IEEE Transactions on Signal Processing</i> , 2010 , 58, 2654-2666	4.8	7

23	Information-Theoretic Limits on Sparse Signal Recovery: Dense versus Sparse Measurement Matrices. <i>IEEE Transactions on Information Theory</i> , 2010 , 56, 2967-2979	2.8	88
22	Correction to On Functional Duality in Multiuser Source and Channel Coding Problems Having One-Sided Collaboration [Jul 06 2986-3002]. <i>IEEE Transactions on Information Theory</i> , 2010 , 56, 4763-4763 ^{2,8}		
21	Network Coding for Distributed Storage Systems. <i>IEEE Transactions on Information Theory</i> , 2010 , 56, 4539-4551	2.8	1025
20	Multi-Antenna Interference Cancellation Techniques for Cognitive Radio Applications 2009 ,		16
19	Robust video transmission with distributed source coded auxiliary channel. <i>IEEE Transactions on Image Processing</i> , 2009 , 18, 2695-705	8.7	2
18	. <i>IEEE Transactions on Information Forensics and Security</i> , 2008 , 3, 749-762	8	39
17	Colored Gaussian Source Channel Broadcast for Heterogeneous (Analog/Digital) Receivers. <i>IEEE Transactions on Information Theory</i> , 2008 , 54, 1807-1814	2.8	11
16	High-Speed Action Recognition and Localization in Compressed Domain Videos. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2008 , 18, 1006-1015	6.4	43
15	Unsupervised Discovery of Action Hierarchies in Large Collections of Activity Videos 2007 ,		1
14	. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2007 , 1, 618-632	7.5	65
13	A Graph-Based Framework for Transmission of Correlated Sources Over Multiple-Access Channels. <i>IEEE Transactions on Information Theory</i> , 2007 , 53, 4583-4604	2.8	15
12	Unequal Growth Codes: Intermediate Performance and Unequal Error Protection for Video Streaming 2007 ,		15
11	View Synthesis for Robust Distributed Video Compression in Wireless Camera Networks 2007 ,		10
10	PRISM: A video coding paradigm with motion estimation at the decoder. <i>IEEE Transactions on Image Processing</i> , 2007 , 16, 2436-48	8.7	175
9	Distributed Sparse Random Projections for Refinable Approximation 2007 ,		42
8	Syndrome-Based Robust Video Transmission Over Networks with Bursty Losses 2006 ,		8
7	Robust wireless video multicast based on a distributed source coding approach. <i>Signal Processing</i> , 2006 , 86, 3196-3211	4.4	3
6	A distributed and adaptive signal processing approach to exploiting correlation in sensor networks. <i>Ad Hoc Networks</i> , 2004 , 2, 387-403	4.8	11

5	Total System Energy Minimization for Wireless Image Transmission. <i>Journal of Signal Processing Systems</i> , 2001 , 27, 99-117	21
4	Coding for sensor networks using untuned radios	1
3	Towards a theory for video coding using distributed compression principles	11
2	On decoder-latency versus performance tradeoffs in differential predictive coding	6
1	On multivariate estimation by thresholding	5