

# Kannan Ramchandran

## List of Publications by Citations

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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	Network Coding for Distributed Storage Systems. <i>IEEE Transactions on Information Theory</i> , <b>2010</b> , 56, 4539-4551	2.8	1025
75	Multiplexed coded illumination for Fourier Ptychography with an LED array microscope. <i>Biomedical Optics Express</i> , <b>2014</b> , 5, 2376-89	3.5	290
74	PRISM: A video coding paradigm with motion estimation at the decoder. <i>IEEE Transactions on Image Processing</i> , <b>2007</b> , 16, 2436-48	8.7	175
73	Distributed Storage Codes With Repair-by-Transfer and Nonachievability of Interior Points on the Storage-Bandwidth Tradeoff. <i>IEEE Transactions on Information Theory</i> , <b>2012</b> , 58, 1837-1852	2.8	152
72	. <i>IEEE Transactions on Information Theory</i> , <b>2013</b> , 59, 2974-2987	2.8	117
71	. <i>IEEE Transactions on Information Theory</i> , <b>2011</b> , 57, 1425-1442	2.8	110
70	Securing Dynamic Distributed Storage Systems Against Eavesdropping and Adversarial Attacks. <i>IEEE Transactions on Information Theory</i> , <b>2011</b> , 57, 6734-6753	2.8	108
69	Information-Theoretic Limits on Sparse Signal Recovery: Dense versus Sparse Measurement Matrices. <i>IEEE Transactions on Information Theory</i> , <b>2010</b> , 56, 2967-2979	2.8	88
68	Fractional repetition codes for repair in distributed storage systems <b>2010</b> ,		84
67	. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2007</b> , 1, 618-632	7.5	65
66	When Do Redundant Requests Reduce Latency?. <i>IEEE Transactions on Communications</i> , <b>2016</b> , 64, 715-722	2.9	60
65	High-Speed Action Recognition and Localization in Compressed Domain Videos. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2008</b> , 18, 1006-1015	6.4	43
64	Distributed Sparse Random Projections for Refinable Approximation <b>2007</b> ,		42
63	DRESS codes for the storage cloud: Simple randomized constructions <b>2011</b> ,		40
62	. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2008</b> , 3, 749-762	8	39
61	Deterministic algorithm for the cooperative data exchange problem <b>2011</b> ,		33
60	Hybrid Digital-Analog Codes for Source-Channel Broadcast of Gaussian Sources Over Gaussian Channels. <i>IEEE Transactions on Information Theory</i> , <b>2011</b> , 57, 4573-4588	2.8	31

59	Secrecy via Sources and Channels. <i>IEEE Transactions on Information Theory</i> , <b>2012</b> , 58, 6747-6765	2.8	28
58	. <i>IEEE Transactions on Information Theory</i> , <b>2017</b> , 63, 3663-3691	2.8	25
57	Perturbed Iterate Analysis for Asynchronous Stochastic Optimization. <i>SIAM Journal on Optimization</i> , <b>2017</b> , 27, 2202-2229	2	23
56	Efficient file synchronization: A distributed source coding approach <b>2011</b> ,		23
55	High-Resolution Distributed Sampling of Bandlimited Fields With Low-Precision Sensors. <i>IEEE Transactions on Information Theory</i> , <b>2011</b> , 57, 476-492	2.8	22
54	Total System Energy Minimization for Wireless Image Transmission. <i>Journal of Signal Processing Systems</i> , <b>2001</b> , 27, 99-117		21
53	. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2015</b> , 9, 1229-1239	7.5	20
52	Cognitive Radio Through Primary Control Feedback. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2011</b> , 29, 384-393	14.2	17
51	SAFFRON: A fast, efficient, and robust framework for group testing based on sparse-graph codes <b>2016</b> ,		17
50	Spline-Like Wavelet Filterbanks for Multiresolution Analysis of Graph-Structured Data. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , <b>2015</b> , 1, 268-278	2.8	16
49	Interactive low-complexity codes for synchronization from deletions and insertions <b>2010</b> ,		16
48	Multi-Antenna Interference Cancellation Techniques for Cognitive Radio Applications <b>2009</b> ,		16
47	. <i>IEEE Transactions on Information Theory</i> , <b>2017</b> , 63, 6679-6713	2.8	15
46	. <i>IEEE Signal Processing Magazine</i> , <b>2013</b> , 30, 53-61	9.4	15
45	A Graph-Based Framework for Transmission of Correlated Sources Over Multiple-Access Channels. <i>IEEE Transactions on Information Theory</i> , <b>2007</b> , 53, 4583-4604	2.8	15
44	Unequal Growth Codes: Intermediate Performance and Unequal Error Protection for Video Streaming <b>2007</b> ,		15
43	Low-Complexity Interactive Algorithms for Synchronization From Deletions, Insertions, and Substitutions. <i>IEEE Transactions on Information Theory</i> , <b>2015</b> , 61, 5670-5689	2.8	14
42	Achievable Rates for Channels With Deletions and Insertions. <i>IEEE Transactions on Information Theory</i> , <b>2013</b> , 59, 6990-7013	2.8	14

41	PhaseCode: Fast and efficient compressive phase retrieval based on sparse-graph codes <b>2014</b> ,		14
40	Efficient Algorithms for the Data Exchange Problem. <i>IEEE Transactions on Information Theory</i> , <b>2016</b> , 62, 1878-1896	2.8	13
39	Gradient Coding Based on Block Designs for Mitigating Adversarial Stragglers <b>2019</b> ,		13
38	Optimal DNA shotgun sequencing: Noisy reads are as good as noiseless reads <b>2013</b> ,		13
37	Colored Gaussian Source Channel Broadcast for Heterogeneous (Analog/Digital) Receivers. <i>IEEE Transactions on Information Theory</i> , <b>2008</b> , 54, 1807-1814	2.8	11
36	A distributed and adaptive signal processing approach to exploiting correlation in sensor networks. <i>Ad Hoc Networks</i> , <b>2004</b> , 2, 387-403	4.8	11
35	Towards a theory for video coding using distributed compression principles		11
34	Securing dynamic distributed storage systems from malicious nodes <b>2011</b> ,		10
33	View Synthesis for Robust Distributed Video Compression in Wireless Camera Networks <b>2007</b> ,		10
32	. <i>IEEE Signal Processing Magazine</i> , <b>2013</b> , 30, 95-106	9.4	9
31	A compression algorithm using mis-aligned side-information <b>2012</b> ,		9
30	Coding of Image Feature Descriptors for Distributed Rate-efficient Visual Correspondences. <i>International Journal of Computer Vision</i> , <b>2011</b> , 94, 267-281	10.6	9
29	. <i>IEEE Transactions on Information Theory</i> , <b>2019</b> , 65, 6580-6619	2.8	8
28	On scheduling redundant requests with cancellation overheads <b>2015</b> ,		8
27	Syndrome-Based Robust Video Transmission Over Networks with Bursty Losses <b>2006</b> ,		8
26	SAFFRON: A Fast, Efficient, and Robust Framework for Group Testing Based on Sparse-Graph Codes. <i>IEEE Transactions on Signal Processing</i> , <b>2019</b> , 67, 4649-4664	4.8	7
25	Dithered A/D Conversion of Smooth Non-Bandlimited Signals. <i>IEEE Transactions on Signal Processing</i> , <b>2010</b> , 58, 2654-2666	4.8	7
24	Distributed Secret Dissemination Across a Network. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2015</b> , 9, 1206-1216	7.5	6

23	On decoder-latency versus performance tradeoffs in differential predictive coding		6
22	On multivariate estimation by thresholding		5
21	Communication-Efficient Gradient Coding for Straggler Mitigation in Distributed Learning <b>2020</b> ,		5
20	CRISPRL and: Interpretable large-scale inference of DNA repair landscape based on a spectral approach. <i>Bioinformatics</i> , <b>2020</b> , 36, i560-i568	7.2	5
19	Epistatic Net allows the sparse spectral regularization of deep neural networks for inferring fitness functions. <i>Nature Communications</i> , <b>2021</b> , 12, 5225	17.4	5
18	A Fast and Robust Paradigm for Fourier Compressed Sensing Based on Coded Sampling <b>2019</b> ,		4
17	Fast sparse 2-D DFT computation using sparse-graph alias codes <b>2016</b> ,		4
16	Asynchronous and noncoherent neighbor discovery for the IoT using sparse-graph codes <b>2017</b> ,		4
15	Sparse covariance estimation based on sparse-graph codes <b>2015</b> ,		3
14	Robust wireless video multicast based on a distributed source coding approach. <i>Signal Processing</i> , <b>2006</b> , 86, 3196-3211	4.4	3
13	Compressed sensing using sparse-graph codes for the continuous-alphabet setting <b>2016</b> ,		3
12	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> , <b>2019</b> , 54, 1993-2008	5.5	2
11	Metadata-Conscious Anonymous Messaging. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , <b>2016</b> , 1-1	2.8	2
10	Robust video transmission with distributed source coded auxiliary channel. <i>IEEE Transactions on Image Processing</i> , <b>2009</b> , 18, 2695-705	8.7	2
9	Rumor Source Obfuscation on Irregular Trees. <i>Performance Evaluation Review</i> , <b>2016</b> , 44, 153-164	0.4	2
8	A Real-Time, Analog/Digital Co-Designed 1.89-GHz Bandwidth, 175-kHz Resolution Sparse Spectral Analysis RISC-V SoC in 16-nm FinFET <b>2018</b> ,		2
7	Capacity-approaching PhaseCode for low-complexity compressive phase retrieval <b>2015</b> ,		1
6	Unsupervised Discovery of Action Hierarchies in Large Collections of Activity Videos <b>2007</b> ,		1

5	Coding for sensor networks using untuned radios		1
4	Low-degree Pseudo-Boolean Function Recovery Using Codes <b>2019</b> ,		1
3	Communication-Efficient and Byzantine-Robust Distributed Learning With Error Feedback. <i>IEEE Journal on Selected Areas in Information Theory</i> , <b>2021</b> , 2, 942-953	2.5	1
2	Adaptive Douglas--Rachford Splitting Algorithm from a Yosida Approximation Standpoint. <i>SIAM Journal on Optimization</i> , <b>2021</b> , 31, 1971-1998	2	0
1	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> , <b>2010</b> , 56, 4763-4763 <sup>2,8</sup>		