

# Vinay A Vaishampayan

## List of Publications by Year in descending order

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69  
papers

3,232  
citations

331538

21  
h-index

345118

36  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1001  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interactive Nearest Lattice Point Search in a Distributed Setting: Two Dimensions. IEEE Transactions on Communications, 2022, 70, 5128-5139.	4.9	0
2	Precoder Design for Communication-Efficient Distributed MIMO Receivers With Controlled Peak-Average Power Ratio. IEEE Transactions on Communications, 2021, 69, 4704-4716.	4.9	2
3	On Communication for Distributed Babai Point Computation. IEEE Transactions on Information Theory, 2021, 67, 6408-6424.	1.5	1
4	Lattice Erasure Codes of Low Rank with Noise Margins. , 2018, , .		0
5	Communication cost of transforming a nearest plane partition to the Voronoi partition. , 2017, , .		4
6	On the communication cost of determining an approximate nearest lattice point. , 2017, , .		5
7	Exploiting Mobility in Proportional Fair Cellular Scheduling: Measurements and Algorithms. IEEE/ACM Transactions on Networking, 2016, 24, 355-367.	2.6	54
8	High-speed Polarization Shift Keying Lightpath Labeling of 100 Gb/s DP-QPSK for Programmable Photonic Networks. , 2015, , .		0
9	Layered Exact-Repair Regenerating Codes via Embedded Error Correction and Block Designs. IEEE Transactions on Information Theory, 2015, 61, 1933-1947.	1.5	53
10	Reliability of Erasure Coded Storage Systems: A Combinatorial-Geometric Approach. IEEE Transactions on Information Theory, 2015, 61, 5795-5809.	1.5	0
11	Distributed data storage systems with opportunistic repair. , 2014, , .		13
12	Exploiting mobility in proportional fair cellular scheduling: Measurements and algorithms. , 2014, , .		31
13	Set avoidance probabilities and bounds on the reliability of erasure coded storage systems. , 2014, , .		1
14	Phoenix: Storage Using an Autonomous Mobile Infrastructure. IEEE Transactions on Parallel and Distributed Systems, 2013, , 1-1.	4.0	13
15	Projections, dissections and bandwidth expansion mappings. , 2013, , .		0
16	Flat tori, lattices and spherical codes. , 2013, , .		4
17	Constructive Spherical Codes on Layers of Flat Tori. IEEE Transactions on Information Theory, 2013, 59, 6655-6663.	1.5	9
18	Optimizing Cloud Resources for Delivering IPTV Services Through Virtualization. IEEE Transactions on Multimedia, 2013, 15, 789-801.	5.2	37

#	ARTICLE	IF	CITATIONS
19	Reliability of erasure coded storage systems: A geometric approach. , 2013, , .		2
20	Distributed storage evaluation on a three-wide inter-data center deployment. , 2013, , .		5
21	Exact-repair regenerating codes via layered erasure correction and block designs. , 2013, , .		24
22	An automatic grid corner extraction technique for camera calibration. , 2012, , .		3
23	Optimizing cloud resources for delivering IPTV services through virtualization. , 2012, , .		7
24	Aligned precoder designs for interference channels based on chordal distance. , 2012, , .		0
25	Exploiting virtualization for delivering cloud-based IPTV services. , 2011, , .		23
26	Capacity requirements for on-demand IPTV services. , 2011, , .		3
27	A Note on Projecting the Cubic Lattice. Discrete and Computational Geometry, 2011, 46, 472-478.	0.4	8
28	Digital Lightpath Label Transcoding for Dual-Polarization QPSK Systems. , 2011, , .		4
29	On the capacity of a hybrid broadcast multiple access system for WDM networks. , 2011, , .		1
30	Upsampling range camera depth maps using high-resolution vision camera and pixel-level confidence classification. Proceedings of SPIE, 2011, , .	0.8	1
31	Understanding couch potatoes. , 2011, , .		27
32	Inter-Wavelength Transfer of Digital Lightpath Labels Induced by Stimulated Raman Scattering. , 2010, , .		2
33	The lifting construction: A general solution for the fat strut problem. , 2010, , .		9
34	Performance analysis of an asynchronous multi-user communication system for optical networks. , 2010, , .		0
35	Accuracy of depth and orientation estimation based on texture characteristics. , 2010, , .		2
36	Effect of chip-level asynchronism on a CDMA-based overlay system for optical network management. IEEE Journal on Selected Areas in Communications, 2010, 28, 901-912.	9.7	3

#	ARTICLE	IF	CITATIONS
37	Characterizing Interactive Behavior in a Large-Scale Operational IPTV Environment. , 2010, , .		7
38	Spherical codes on torus layers. , 2009, , .		9
39	A Coding Algorithm for Constant Weight Vectors: A Geometric Approach Based on Dissections. IEEE Transactions on Information Theory, 2009, 55, 1051-1060.	1.5	13
40	Generalizations of Schlegel's Tetrahedral Dissection. Discrete and Computational Geometry, 2009, 41, 232-248.	0.4	4
41	Fat struts: Constructions and a bound. , 2009, , .		3
42	Clip-On Fiber Identifier Using Digital Lightpath Labels. , 2009, , .		0
43	Clip-on fiber identifier using digital lightpath labels. Proceedings of SPIE, 2009, , .	0.8	4
44	Simultaneous Data Regeneration and Digital Label Swapping in an SOA-MZI Device. IEEE Photonics Technology Letters, 2008, 20, 1491-1493.	1.3	0
45	All-Optical Swapping of Digital Lightpath Labels. , 2008, , .		1
46	Internet Traffic and Multiresolution Analysis. Institute of Mathematical Statistics Collections, 2008, , 215-234.	0.3	2
47	Modeling packet-loss visibility in MPEG-2 video. IEEE Transactions on Multimedia, 2006, 8, 341-355.	5.2	123
48	Rejection of interlabel crosstalk in a digital lightpath labeling system with low-cost all-wavelength receivers. Journal of Lightwave Technology, 2006, 24, 1121-1128.	2.7	13
49	A/D conversion with imperfect quantizers. IEEE Transactions on Information Theory, 2006, 52, 874-885.	1.5	47
50	An Overlay Architecture for Managing Lightpaths in Optically Routed Networks. IEEE Transactions on Communications, 2005, 53, 1729-1737.	4.9	20
51	Quality Monitoring of Video Over a Packet Network. IEEE Transactions on Multimedia, 2004, 6, 327-334.	5.2	119
52	Curves on a sphere, shift-map dynamics, and error control for continuous alphabet sources. IEEE Transactions on Information Theory, 2003, 49, 1658-1672.	1.5	69
53	Asymmetric multiple description lattice vector quantizers. IEEE Transactions on Information Theory, 2002, 48, 174-191.	1.5	41
54	Multiple description coding using pairwise correlating transforms. IEEE Transactions on Image Processing, 2001, 10, 351-366.	6.0	293

#	ARTICLE	IF	CITATIONS
55	Multiple-description vector quantization with lattice codebooks: design and analysis. IEEE Transactions on Information Theory, 2001, 47, 1718-1734.	1.5	160
56	On the robustness of single-loop sigma-delta modulation. IEEE Transactions on Information Theory, 2001, 47, 1735-1744.	1.5	20
57	The analysis and design of windowed Fourier frame based multiple description source coding schemes. IEEE Transactions on Information Theory, 2000, 46, 2491-2536.	1.5	27
58	Multiple description wavelet based image coding. IEEE Transactions on Image Processing, 2000, 9, 813-826.	6.0	188
59	Asymptotic analysis of multiple description quantizers. IEEE Transactions on Information Theory, 1998, 44, 278-284.	1.5	66
60	Asymptotic performance of multiple description transform codes. IEEE Transactions on Information Theory, 1997, 43, 703-707.	1.5	64
61	Low-delay communication for Rayleigh fading channels: an application of the multiple description quantizer. IEEE Transactions on Communications, 1995, 43, 2771-2783.	4.9	29
62	DPCM system design for diversity systems with applications to packetized speech. IEEE Transactions on Speech and Audio Processing, 1995, 3, 48-58.	2.0	60
63	Design of entropy-constrained multiple-description scalar quantizers. IEEE Transactions on Information Theory, 1994, 40, 245-250.	1.5	128
64	Design of multiple description scalar quantizers. IEEE Transactions on Information Theory, 1993, 39, 821-834.	1.5	742
65	<title>Structural limitations of self-affine and partially self-affine fractal compression</title>. , 1993, 2094, 1498.		8
66	Joint design of block source codes and modulation signal sets. IEEE Transactions on Information Theory, 1992, 38, 1230-1248.	1.5	76
67	On the performance and complexity of channel-optimized vector quantizers. IEEE Transactions on Information Theory, 1991, 37, 155-160.	1.5	233
68	Optimal block cosine transform image coding for noisy channels. IEEE Transactions on Communications, 1990, 38, 327-336.	4.9	51
69	Optimal quantizer design for noisy channels: An approach to combined source - channel coding. IEEE Transactions on Information Theory, 1987, 33, 827-838.	1.5	261