

S Sandeep Pradhan

List of Publications by Year in descending order

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papers

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all docs

53
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53
times ranked

304
citing authors

#	ARTICLE	IF	CITATIONS
1	Lattices for Distributed Source Coding: Jointly Gaussian Sources and Reconstruction of a Linear Function. IEEE Transactions on Information Theory, 2009, 55, 5628-5651.	2.4	79
2	Source Coding With Feed-Forward: Rate-Distortion Theorems and Error Exponents for a General Source. IEEE Transactions on Information Theory, 2007, 53, 2154-2179.	2.4	57
3	Distributed Source Coding Using Abelian Group Codes: A New Achievable Rate-Distortion Region. IEEE Transactions on Information Theory, 2011, 57, 1495-1519.	2.4	55
4	Error Exponent for Multiple-Access Channels: Lower Bounds. IEEE Transactions on Information Theory, 2014, 60, 5095-5115.	2.4	44
5	Error Exponent Regions for Gaussian Broadcast and Multiple-Access Channels. IEEE Transactions on Information Theory, 2008, 54, 2919-2942.	2.4	34
6	Multilevel polarization of polar codes over arbitrary discrete memoryless channels. , 2011, , .		33
7	Multilevel Channel Polarization for Arbitrary Discrete Memoryless Channels. IEEE Transactions on Information Theory, 2013, 59, 7839-7857.	2.4	29
8	An Achievable Rate Region for the Broadcast Channel With Feedback. IEEE Transactions on Information Theory, 2013, 59, 6175-6191.	2.4	28
9	A Graph-Based Framework for Transmission of Correlated Sources Over Multiple-Access Channels. IEEE Transactions on Information Theory, 2007, 53, 4583-4604.	2.4	24
10	An Achievable Rate Region for the Three-User Interference Channel Based on Coset Codes. IEEE Transactions on Information Theory, 2016, 62, 1250-1279.	2.4	21
11	A Graph-Based Framework for Transmission of Correlated Sources Over Broadcast Channels. IEEE Transactions on Information Theory, 2008, 54, 2841-2856.	2.4	20
12	A new achievable rate region for the 3-user discrete memoryless interference channel. , 2012, , .		16
13	A New Achievable Rate Region for the Multiple-Access Channel With Noiseless Feedback. IEEE Transactions on Information Theory, 2011, 57, 8038-8054.	2.4	15
14	On the Role of Feedforward in Gaussian Sources: Point-to-Point Source Coding and Multiple Description Source Coding. IEEE Transactions on Information Theory, 2007, 53, 331-349.	2.4	13
15	The Effect of Node Density and Propagation Model on Throughput Scaling of Wireless Networks. , 2006, , .		12
16	Distributed source coding in absence of common components. , 2013, , .		12
17	Finite block-length gains in distributed source coding. , 2014, , .		12
18	An Achievable Rate Region Based on Coset Codes for Multiple Access Channel With States. IEEE Transactions on Information Theory, 2017, 63, 6393-6415.	2.4	12

#	ARTICLE	IF	CITATIONS
19	Achievable Rate Region for Three User Discrete Broadcast Channel Based on Coset Codes. IEEE Transactions on Information Theory, 2018, 64, 2267-2297.	2.4	12
20	Achievable rate region based on coset codes for multiple access channel with states. , 2013, , .		11
21	A relay-assisted distributed source coding problem. , 2008, , .		10
22	Information Rates of Densely Sampled Data: Distributed Vector Quantization and Scalar Quantization With Transforms for Gaussian Sources. IEEE Transactions on Information Theory, 2013, 59, 5641-5664.	2.4	10
23	A new achievable rate region for the discrete memoryless multiple-access channel with feedback. , 2009, , .		9
24	Nested linear codes achieve Marton's inner bound for general broadcast channels. , 2011, , .		9
25	Abelian Group Codes for Channel Coding and Source Coding. IEEE Transactions on Information Theory, 2015, 61, 2399-2414.	2.4	9
26	Supertranslation hair of Schwarzschild black hole: a Wilson line perspective. Journal of High Energy Physics, 2020, 2020, 1.	4.7	9
27	On the capacity of Abelian group codes over discrete memoryless channels. , 2011, , .		8
28	Diversity Gain Regions for MIMO Fading Broadcast Channels. IEEE Transactions on Communications, 2011, 59, 2716-2728.	7.8	8
29	An achievable rate region for distributed source coding with reconstruction of an arbitrary function of the sources. , 2008, , .		7
30	Nested lattice codes for arbitrary continuous sources and channels. , 2012, , .		5
31	Error Exponent for Multiple Access Channels: Upper Bounds. IEEE Transactions on Information Theory, 2015, 61, 3605-3621.	2.4	5
32	Typicality graphs and their properties. , 2010, , .		4
33	An Achievable Rate-Distortion Region for Multiple Descriptions Source Coding Based on Coset Codes. IEEE Transactions on Information Theory, 2018, 64, 3781-3809.	2.4	4
34	On the Sub-Optimality of Single-Letter Coding Over Networks. IEEE Transactions on Information Theory, 2019, 65, 6115-6135.	2.4	4
35	Achievable rate-region for \mathcal{N} -User Classical-Quantum Interference Channel using Structured Codes. , 2021, , .		4
36	Computing Sum of Sources over a Classical-Quantum MAC. , 2021, , .		4

#	ARTICLE	IF	CITATIONS
37	Distributed source coding using Abelian group codes: Extracting performance from structure. , 2008, , .		3
38	A new sphere-packing bound for maximal error exponent for multiple-access channels. , 2008, , .		3
39	New bounds on the maximal error exponent for multiple-access channels. , 2009, , .		3
40	Achievable rates for the broadcast channel with feedback. , 2010, , .		3
41	On distributed source coding using Abelian group codes. , 2012, , .		3
42	On the correlation between Boolean functions of sequences of random variables. , 2017, , .		3
43	On The Reliability Function of Discrete Memoryless Multiple-Access Channel with Feedback. , 2018, , .		3
44	Structured Mappings and Conferencing Common Information for Multiple-Access Channels. IEEE Transactions on Information Theory, 2020, 66, 4203-4225.	2.4	2
45	Polar codes for sources with finite reconstruction alphabets. , 2012, , .		1
46	Quasi Structured Codes for Multi-Terminal Communications. IEEE Transactions on Information Theory, 2019, 65, 6263-6289.	2.4	1
47	A New Achievable Rate-Distortion Region for Distributed Source Coding. IEEE Transactions on Information Theory, 2021, 67, 4485-4503.	2.4	1
48	Faithful Simulation of Distributed Quantum Measurements With Applications in Distributed Rate-Distortion Theory. IEEE Transactions on Information Theory, 2022, 68, 1085-1118.	2.4	1
49	Representation of Correlated Sources into Graphs for Transmission over Broadcast Channels. , 2006, , .		0
50	Correction to "On Functional Duality in Multiuser Source and Channel Coding Problems Having One-Sided Collaboration" [Jul 06 2986-3002]. IEEE Transactions on Information Theory, 2010, 56, 4763-4763.	2.4	0
51	Codes over non-Abelian groups: Point-to-point communications and computation over MAC. , 2012, , .		0
52	On the sub-optimality of single-letter coding in multi-terminal communications. , 2017, , .		0
53	Corrections to "Abelian Group Codes for Channel Coding and Source Coding" [May 15 2399-2414]. IEEE Transactions on Information Theory, 2018, 64, 3953-3953.	2.4	0