Biao Chen

List of Publications by Year
in descending order

37 papers	2,415 citations	394421 19 h-index	642732 23 g-index
37 all docs	37 docs citations	37 times ranked	1001 citing authors

#	ARTICLE	IF	CITATIONS
1	On the Capacity of Multiple-Access-Z-Interference Channels. IEEE Transactions on Information Theory, 2014, 60, 7732-7750.	2.4	2
2	Capacity Bounds and Sum Rate Capacities of a Class of Discrete Memoryless Interference Channels. IEEE Transactions on Information Theory, 2014, 60, 3763-3772.	2.4	3
3	On the sum capacity of the discrete memoryless interference channel with one-sided weak interference and mixed interference. , 2012, , .		8
4	A New Framework for Distributed Detection With Conditionally Dependent Observations. IEEE Transactions on Signal Processing, 2012, 60, 1409-1419.	5.3	71
5	The sufficiency principle for decentralized data reduction. , 2012, , .		5
6	On energy detection for cooperative spectrum sensing. , 2012, , .		4
7	Noisy-Interference Sum-Rate Capacity of Parallel Gaussian Interference Channels. IEEE Transactions on Information Theory, 2011, 57, 210-226.	2.4	32
8	Multiuser MISO Interference Channels With Single-User Detection: Optimality of Beamforming and the Achievable Rate Region. IEEE Transactions on Information Theory, 2011, 57, 4255-4273.	2.4	87
9	Capacity Regions and Sum-Rate Capacities of Vector Gaussian Interference Channels. IEEE Transactions on Information Theory, 2010, 56, 5030-5044.	2.4	63
10	The sum rate optimality of the na&#x00EF;ve FDM for the Gaussian Interference Channel within a computable Han-Kobayashi subregion. , 2010, , .		0
11	On the Optimality of Beamforming for Multi-User MISO Interference Channels with Single-User Detection. , 2009, , .		12
12	Further Results on the Optimality of the Likelihood-Ratio Test for Local Sensor Decision Rules in the Presence of Nonideal Channels. IEEE Transactions on Information Theory, 2009, 55, 828-832.	2.4	21
13	A New Outer Bound and the Noisy-Interference Sumâ€"Rate Capacity for Gaussian Interference Channels. IEEE Transactions on Information Theory, 2009, 55, 689-699.	2.4	318
14	Throughput optimization for multi-user interference channels. , 2008, , .		8
15	On Sum-Rate Capacity of Parallel Gaussian Symmetric Interference Channels. , 2008, , .		6
16	On the capacity of MIMO interference channels. , 2008, , .		23
17	Distributed Detection Over Multiple Access Channels. , 2007, , .		12
18	Achievable Rate Region for Downlink Beamforming in the Presence of Interference. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	19

#	ARTICLE	IF	CITATIONS
19	Decision Fusion in Large Sensor Networks using Partially Coherent and Noncoherent Strategies. , 2007, , .		2
20	Minimum Error Probability Cooperative Relay Design. IEEE Transactions on Signal Processing, 2007, 55, 656-664.	5.3	9
21	Distributed Binary Quantizers for Communication Constrained Large-scale Sensor Networks. , 2006, , .		5
22	Detection Performance Limits for Distributed Sensor Networks in the Presence of Nonideal Channels. IEEE Transactions on Wireless Communications, 2006, 5, 3034-3038.	9.2	36
23	Channel-aware distributed detection in wireless sensor networks. IEEE Signal Processing Magazine, 2006, 23, 16-26.	5.6	242
24	Fusion of decisions transmitted over Rayleigh fading channels in wireless sensor networks. IEEE Transactions on Signal Processing, 2006, 54, 1018-1027.	5.3	265
25	Channel-optimized quantizers for decentralized detection in sensor networks. IEEE Transactions on Information Theory, 2006, 52, 3349-3358.	2.4	55
26	Decentralized Detection in Wireless Sensor Networks with Channel Fading Statistics. Eurasip Journal on Wireless Communications and Networking, 2006, 2007, 1.	2.4	13
27	A combined decision fusion and channel coding scheme for distributed fault-tolerant classification in wireless sensor networks. IEEE Transactions on Wireless Communications, 2006, 5, 1695-1705.	9.2	41
28	On the Optimality of the Likelihood-Ratio Test for Local Sensor Decision Rules in the Presence of Nonideal Channels. IEEE Transactions on Information Theory, 2005, 51, 693-699.	2.4	152
29	Decision fusion rules in multi-hop wireless sensor networks. IEEE Transactions on Aerospace and Electronic Systems, 2005, 41, 475-488.	4.7	104
30	Fusion of censored decisions in wireless sensor networks. IEEE Transactions on Wireless Communications, 2005, 4, 2668-2673.	9.2	156
31	Blind Estimation of OFDM Carrier Frequency Offset via Oversampling. IEEE Transactions on Signal Processing, 2004, 52, 2047-2057.	5.3	83
32	Channel Aware Decision Fusion in Wireless Sensor Networks. IEEE Transactions on Signal Processing, 2004, 52, 3454-3458.	5.3	359
33	A Bayesian sampling approach to decision fusion using hierarchical models. IEEE Transactions on Signal Processing, 2002, 50, 1809-1818.	5.3	53
34	Maximum likelihood estimation of OFDM carrier frequency offset. IEEE Signal Processing Letters, 2002, 9, 123-126.	3.6	108
35	Maximum likelihood estimation of OFDM carrier frequency offset. , 0, , .		8
36	Fusion of decisions transmitted over fading channels in wireless sensor networks. , 0, , .		26

#	ARTICLE	IF	CITATIONS
37	Channel optimized binary quantizers for distributed sensor networks. , 0, , .		4