Po-Ning Chen

List of Publications by Year
in descending order

98 papers	758 citations	623734 14 h-index	642732 23 g-index
99 all docs	99 docs citations	99 times ranked	442 citing authors

#	Article	IF	Citations
1	Distributed fault-tolerant classification in wireless sensor networks. IEEE Journal on Selected Areas in Communications, 2005, 23, 724-734.	14.0	83
2	Optimal Transmission Range for Wireless Ad Hoc Networks Based on Energy Efficiency. IEEE Transactions on Communications, 2007, 55, 1772-1782.	7.8	67
3	Optimum transmission range for wireless ad hoc networks. , 2004, , .		37
4	General formulas for the Neyman-Pearson type-II error exponent subject to fixed and exponential type-I error bounds. IEEE Transactions on Information Theory, 1996, 42, 316-323.	2.4	36
5	New asymptotic results in parallel distributed detection. IEEE Transactions on Information Theory, 1993, 39, 1847-1863.	2.4	33
6	A maximum-likelihood soft-decision sequential decoding algorithm for binary convolutional codes. IEEE Transactions on Communications, 2002, 50, 173-178.	7.8	27
7	Optimistic Shannon coding theorems for arbitrary single-user systems. IEEE Transactions on Information Theory, 1999, 45, 2623-2629.	2.4	26
8	Low-complexity ML decoding for convolutional tail-biting codes. IEEE Communications Letters, 2008, 12, 883-885.	4.1	25
9	Performance Analysis and Code Design for Minimum Hamming Distance Fusion in Wireless Sensor Networks. IEEE Transactions on Information Theory, 2007, 53, 1716-1734.	2.4	22
10	Optimal Ultrasmall Block-Codes for Binary Discrete Memoryless Channels. IEEE Transactions on Information Theory, 2013, 59, 7346-7378.	2.4	22
11	An Introduction to Single-User Information Theory. Springer Undergraduate Texts in Mathematics and Technology, 2018, , .	0.1	18
12	Likelihood ratio partitions for distributed signal detection in correlated Gaussian noise. , 0, , .		17
13	BCH Code Selection and Iterative Decoding for BCH and LDPC Concatenated Coding System. IEEE Communications Letters, 2013, 17, 980-983.	4.1	17
14	Robust Decoding for Convolutionally Coded Systems Impaired by Memoryless Impulsive Noise. IEEE Transactions on Communications, 2013, 61, 4640-4652.	7.8	16
15	Weak Flip Codes and their Optimality on the Binary Erasure Channel. IEEE Transactions on Information Theory, 2018, 64, 5191-5218.	2.4	15
16	Generalization of Gartner-Ellis theorem. IEEE Transactions on Information Theory, 2000, 46, 2752-2760.	2.4	14
17	Csiszar's cutoff rates for arbitrary discrete sources. IEEE Transactions on Information Theory, 2001, 47, 330-338.	2.4	12
18	Local Threshold Design for Target Localization Using Error Correcting Codes in Wireless Sensor Networks in the Presence of Byzantine Attacks. IEEE Transactions on Information Forensics and Security, 2017, 12, 1571-1584.	6.9	12

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19	Delay-Constrained Input-Queued Switch. IEEE Journal on Selected Areas in Communications, 2018, 36, 2464-2474.	14.0	12
20	Optimal Inter-Constellation Rotation Based on Minimum Distance Criterion for Uplink NOMA. IEEE Transactions on Vehicular Technology, 2019, 68, 525-539.	6.3	12
21	Broadband service creation and operations. , 1997, 35, 116-124.		11
22	Priority-first search decoding for convolutional tail-biting codes. , 2008, , .		10
23	Low-Complexity Soft-Output Sphere Decoding with Modified Repeated Tree Search Strategy. IEEE Communications Letters, 2013, 17, 51-54.	4.1	10
24	On the Asymptotic Performance of Delay-Constrained Slotted ALOHA. , 2018, , .		10
25	Equidistant codes meeting the Plotkin bound are Not optimal on the binary symmetric channel. , 2013, , .		9
26	A Low-Complexity Maximum-Likelihood Decoder for Tail-Biting Convolutional Codes. IEEE Transactions on Communications, 2018, 66, 1859-1870.	7.8	9
27	A systematic bit-wise decomposition of M-ary symbol metric. IEEE Transactions on Wireless Communications, 2006, 5, 2742-2751.	9.2	8
28	Flip CRC Modification for Message Length Detection. IEEE Transactions on Communications, 2007, 55, 1747-1756.	7.8	8
29	Error bounds for parallel distributed detection under the Neyman-Pearson criterion. IEEE Transactions on Information Theory, 1995, 41, 528-533.	2.4	7
30	Distance-spectrum formulas on the largest minimum distance of block codes. IEEE Transactions on Information Theory, 2000, 46, 869-885.	2.4	7
31	A Generalized Poor-VerdÃº Error Bound for Multihypothesis Testing. IEEE Transactions on Information Theory, 2012, 58, 311-316.	2.4	7
32	On the Design of Variable-Length Error-Correcting Codes. IEEE Transactions on Communications, 2013, 61, 3553-3565.	7.8	7
33	Minimum Byzantine Effort for Blinding Distributed Detection in Wireless Sensor Networks. IEEE Transactions on Signal Processing, 2020, 68, 647-661.	5.3	7
34	CsiszÃ¡r's Cutoff Rates for the General Hypothesis Testing Problem. IEEE Transactions on Information Theory, 2004, 50, 663-678.	2.4	6
35	Weak flip codes and applications to optimal code design on the binary erasure channel. , 2012, , .		6
36	General expressions of derivative-constrained linear-phase type-I FIR filters. , 2013, , .		6

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37	A General Structure of Linear-Phase FIR Filters With Derivative Constraints. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 1839-1852.	5.4	6
38	Target Localization Using Sensor Location Knowledge in Wireless Sensor Networks. IEEE Wireless Communications Letters, 2018, 7, 456-459.	5.0	6
39	Asymptotic Performance Analysis for Minimum-Hamming-Distance Fusion. , 0, , .		5
40	On the coding scheme for joint channel estimation and error correction over block fading channels. , 2009, , .		5
41	Ultra-small block-codes for binary discrete memoryless channels. , 2011, , .		5
42	A generalization of the fano metric and its effect on sequential decoding using a stack. , 0, , .		4
43	A note on the Poor-Verdu upper bound for the channel reliability function. IEEE Transactions on Information Theory, 2002, 48, 309-313.	2.4	4
44	Maximum-Likelihood Priority-First Search Decodable Codes for Combined Channel Estimation and Error Correction. IEEE Transactions on Information Theory, 2009, 55, 4191-4203.	2.4	4
45	Nonlinear codes outperform the best linear codes on the binary erasure channel. , 2015, , .		4
46	Reliability-Based Decoding for Convolutional Tail-Biting Codes. , 2010, , .		3
47	Distance spectrum formula for the largest minimum hamming distance of finite-length binary block codes. , 2017, , .		3
48	An Efficient Tree Search Algorithm for the Free Distance of Variable-Length Error-Correcting Codes. IEEE Communications Letters, 2018, 22, 474-477.	4.1	3
49	A Minimum Distance Criterion Based Constellation Design for Uplink NOMA. , 2019, , .		3
50	Transformation of Binary Linear Block Codes to Polar Codes With Dynamic Frozen. IEEE Open Journal of the Communications Society, 2020, 1, 333-341.	6.9	3
51	Architecture for two-way data services over residential area CATV networks. , 0, , .		2
52	Asymptotic Minimum Covering Radius of Block Codes. SIAM Journal on Discrete Mathematics, 2001, 14, 549-564.	0.8	2
53	Strategies for blind transport format detection using cyclic redundancy check in UMTS WCDMA. , 0, , .		2
54	Early-Elimination Modification for Priority-First Search Decoding. IEEE Transactions on Communications, 2010, 58, 3459-3469.	7.8	2

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55	An edge-preserving interpolation in CCD Color filter arrays. , 2010, , .		2
56	A joint design of code and training sequence for frequency-selective block fading channels with partial CSI. , 2011, , .		2
57	On the construction and MAP decoding of optimal variable-length error-correcting codes. , 2011, , .		2
58	Optimal Power Allocation for (N,K)-Limited Access Channels. IEEE Transactions on Information Theory, 2012, 58, 3725-3750.	2.4	2
59	Optimal Byzantine attack for distributed inference with M-ary quantized data. , 2016, , .		2
60	Type II, III, and IV Linear-Phase FIR Structures Based on Cardinal Filters. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1920-1924.	3.0	2
61	On the Design of Soft-Decision Fusion Rule for Coding Approach in Wireless Sensor Networks. Lecture Notes in Computer Science, 2006, , 140-150.	1.3	2
62	A rate-distortion theorem for arbitrary discrete sources. IEEE Transactions on Information Theory, 1998, 44, 1666-1668.	2.4	1
63	On the optimistic capacity of arbitrary channels. , 0, , .		1
64	Csiszar's forward cutoff rate for testing between two arbitrary sources. , 0, , .		1
65	Reduction of Computational Complexity and Sufficient Stack Size of the MLSDA by Early Elimination. , 2007, , .		1
66	A self-orthogonal code and its maximum-likelihood decoder for combined channel estimation and error protection. , 2008, , .		1
67	A systematic space-time code design and its maximum-likelihood decoding for combined channel estimation and error correction. , 2009, , .		1
68	A two-phase maximum-likelihood sequence estimation for receivers with partial CSI. , 2013, , .		1
69	Simple medianâ€based EP PP scheme for enhancement of reconstructed Bayer colour filter array images. IET Image Processing, 2016, 10, 943-951.	2.5	1
70	A general structure of type-III FIR filters with derivative constraints. , 2017, , .		1
71	Delay-Constrained Input-Queued Switch. , 2018, , .		1
72	Connections Between the Error Probability and the r-wise Hamming Distances. , 2018, , .		1

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73	The r-wise hamming distance and its operational interpretation for block codes. , 2018, , .		1
74	On the Maximum Size of Block Codes Subject to a Distance Criterion. IEEE Transactions on Information Theory, 2019, 65, 3751-3757.	2.4	1
75	Update Bandwidth for Distributed Storage. IEEE Transactions on Information Theory, 2021, 67, 7159-7179.	2.4	1
76	Lagrange Multiplier Optimization of the Probabilistic Caching Policy in Noise-Limited Network. IEEE Transactions on Vehicular Technology, 2021, 70, 2684-2698.	6.3	1
77	Decoder Ties Do Not Affect the Error Exponent of the Memoryless Binary Symmetric Channel. IEEE Transactions on Information Theory, 2022, 68, 3501-3510.	2.4	1
78	Asymptotic Refinements in Bayesian Distributed Detection. , 0, , .		0
79	Determination of the asymptotic largest minimum distance of block codes. , 0, , .		0
80	General formulas for Csiszar's source coding cutoff rates. , 0, , .		0
81	On the Poor-Verdu conjecture for the reliability function of channels with memory. , 0, , .		0
82	Analysis of decoding complexity using the Berry-Esseen theorem. , 0, , .		0
83	Csiszar's hypothesis testing reverse cutoff rate for general sources with memory. , 2003, , .		0
84	Realization of a systematic bit-wise decomposition metric. , 0, , .		0
85	Fault-Tolerance Analysis of a Wireless Sensor Network with Distributed Classification Codes. , 2006, , .		0
86	Path deletions for finite stack-size sequential-type decoding algorithms. , 2010, , .		0
87	On the optimal power allocation for additive color noise parallel channels with limited access constraint. , 2011, , .		0
88	Combining channel estimation and sensor fault protection in wireless sensor networks. , 2011, , .		0
89	The modified wrap-around Viterbi algorithm for convolutional tail-biting codes. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2012, 35, 431-437.	1.1	0
90	Two-pass color interpolation for color filter array. , 2012, , .		0

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91	Analysis and practice of uniquely decodable one-to-one code. , 2013, , .		0
92	A new step-by-step complete decoding algorithm for binary cyclic codes. , 2017, , .		0
93	Sufficient condition on hypothesis statistics for suboptimality of the identical-quantizer parallel distributed detection system. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2018, 41, 98-111.	1.1	0
94	Applications of an exact formula for the largest minimum distance of block codes. , 2018, , .		0
95	Systematic Polar Coded Modulation for Informed Receivers. IEEE Transactions on Communications, 2021, , 1-1.	7.8	0
96	Generalized Likelihood-Ratio Enabled Machine Learning for UE Detection over Grant-free SCMA. , 2020, , .		0
97	An efficient collision resolution scheme for wireless multiple access. , 0, , .		0
98	STROKE RELATION CODING â€" A NEW APPROACH TO THE RECOGNITION OF MULTI-FONT PRINTED CHIMESE CHARACTERS. , 1988, , 149-160.		0