

Jay Cheng

List of Publications by Year in descending order

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31
papers

213
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1163117

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1199594

12
g-index

31
all docs

31
docs citations

31
times ranked

75
citing authors

#	ARTICLE	IF	CITATIONS
1	A simple proof for the constructions of optical priority queues. Queueing Systems, 2007, 56, 73-77.	0.9	31
2	Recursive Constructions of Parallel FIFO and LIFO Queues With Switched Delay Lines. IEEE Transactions on Information Theory, 2007, 53, 1778-1798.	2.4	28
3	On generalized Hamming weights of binary primitive BCH codes with minimum distance one less than a power of two. IEEE Transactions on Information Theory, 1997, 43, 294-298.	2.4	15
4	A general probabilistic framework for detecting community structure in networks. , 2011, , .		13
5	Constructions of Fault-Tolerant Optical 2-to-1 FIFO Multiplexers. IEEE Transactions on Information Theory, 2007, 53, 4092-4105.	2.4	11
6	Constructions of Optical 2-to-1 FIFO Multiplexers With a Limited Number of Recirculations. IEEE Transactions on Information Theory, 2008, 54, 4040-4052.	2.4	10
7	Constructions and analysis of crosstalk-free optical queues. , 2008, , .		10
8	New Bounds on the Expected Length of Optimal One-to-One Codes. IEEE Transactions on Information Theory, 2007, 53, 1884-1895.	2.4	9
9	Constructions of Memoryless Crosstalk Avoidance Codes Via \mathcal{C} -Transform. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2014, 22, 2030-2033.	3.1	9
10	Bit-Stuffing Algorithms for Crosstalk Avoidance in High-Speed Switching. IEEE Transactions on Computers, 2015, 64, 3404-3416.	3.4	8
11	Constructions of Multicast Flexible Delay Lines and Optical Multicast Switches with 100% Throughput. , 2007, , .		7
12	A Bit-Stuffing Algorithm for Crosstalk Avoidance in High Speed Switching. , 2010, , .		7
13	Constructions of Linear Compressors, Nonovertaking Delay Lines, and Flexible Delay Lines for Optical Packet Switching. IEEE/ACM Transactions on Networking, 2009, 17, 2014-2027.	3.8	6
14	Performance analysis for maximal-ratio combining in correlated generalized Rician fading. , 0, , .		5
15	Optimal constructions of fault tolerant optical linear compressors and linear decompressors. IEEE Transactions on Communications, 2009, 57, 1140-1150.	7.8	5
16	Emulation of an Optical Flexible Delay Line by Parallel Variable Optical Delay Lines. IEEE Communications Letters, 2010, 14, 770-772.	4.1	5
17	On Minimal Eigenvalues of a Class of Tridiagonal Matrices. IEEE Transactions on Information Theory, 2009, 55, 5024-5031.	2.4	4
18	Twister Networks and Their Applications to Load-Balanced Switches. , 2010, , .		4

#	ARTICLE	IF	CITATIONS
19	Constructions of Optical Priority Queues With Multiple Inputs and Multiple Outputs. IEEE Transactions on Information Theory, 2011, 57, 4274-4301.	2.4	4
20	On Efficient Constructions of Optical Priority Queues. IEEE Transactions on Communications, 2022, 70, 1861-1874.	7.8	4
21	Quasi-Output-Buffered Switches. IEEE Transactions on Parallel and Distributed Systems, 2011, 22, 833-846.	5.6	3
22	Maximizing throughput in wireless networks with finite internal buffers. , 2011, , .		3
23	A necessary and sufficient condition for SDL constructions of optical FIFO queues. , 2013, , .		3
24	Load-balanced Birkhoff-von Neumann switches and fat-tree networks. , 2013, , .		3
25	Greedy Constructions of Optical Queues With a Limited Number of Recirculations. IEEE Transactions on Information Theory, 2017, 63, 5314-5326.	2.4	3
26	On the Expected Codeword Length Per Symbol of Optimal Prefix Codes for Extended Sources. IEEE Transactions on Information Theory, 2009, 55, 1692-1695.	2.4	1
27	Average Number of Recirculations in SDL Constructions of Optical Priority Queues. IEEE Communications Letters, 2011, 15, 899-901.	4.1	1
28	Constructions of Optical Priority Queues under a Priority-Based Routing Policy. , 2019, , .		1
29	New Upper and Lower Bounds on Exponentially Weighted Average Length of Optimal Binary Prefix Codes. , 2006, , .		0
30	New Upper Bounds on the Redundancy of Optimal One-to-One Codes. , 2007, , .		0
31	Detecting overlapping communities in networks based on a simple node behavior model. , 2013, , .		0