Costas N Georghiades

List of Publications by Year
in descending order

82 papers	1,333 citations	567281 15 h-index	434195 31 g-index
87 all docs	87 docs citations	87 times ranked	938 citing authors

#	Article	IF	Citations
1	On the Index Coding Problem and Its Relation to Network Coding and Matroid Theory. IEEE Transactions on Information Theory, 2010, 56, 3187-3195.	2.4	280
2	Complementary sequences for ISI channel estimation. IEEE Transactions on Information Theory, 2001, 47, 1145-1152.	2.4	141
3	The expectation-maximization algorithm for symbol unsynchronized sequence detection. IEEE Transactions on Communications, 1991, 39, 54-61.	7.8	80
4	Rapid carrier acquisition from baud-rate samples. IEEE Transactions on Communications, 1999, 47, 631-641.	7.8	50
5	Multihead detection for multitrack recording channels. IEEE Transactions on Information Theory, 1998, 44, 2988-2997.	2.4	45
6	Secrecy Capacity per Unit Cost. IEEE Journal on Selected Areas in Communications, 2013, 31, 1909-1920.	14.0	45
7	Distributed compression of binary sources using conventional parallel and serial concatenated convolutional codes. , 0, , .		42
8	Frame Synchronization for Coded Systems Over AWGN Channels. IEEE Transactions on Communications, 2004, 52, 484-489.	7.8	41
9	On the relation between the Index Coding and the Network Coding problems. , 2008, , .		39
10	Error performance analysis of space-time codes over Rayleigh fading channels. Journal of Communications and Networks, 2000, 2, 351-355.	2.6	29
11	Code Design for Flicker Mitigation in Visible Light Communications Using Finite State Machines. IEEE Transactions on Communications, 2017, 65, 2091-2100.	7.8	29
12	Synchronizable codes for the optical OPPM channel. IEEE Transactions on Information Theory, 1994, 40, 1097-1107.	2.4	28
13	Robust Network Codes for Unicast Connections: A Case Study. IEEE/ACM Transactions on Networking, 2011, 19, 644-656.	3.8	28
14	Sequence estimation and synchronization from nonsynchronized samples. IEEE Transactions on Information Theory, 1991, 37, 1649.	2.4	27
15	Secret Writing on Dirty Paper: A Deterministic View. IEEE Transactions on Information Theory, 2012, 58, 3419-3429.	2.4	24
16	Compression of binary sources with side information using low-density parity-check codes. , 0, , .		20
17	An EM-based channel estimation algorithm for OFDM with transmitter diversity. , 0, , .		19
18	Frame synchronization for optical overlapping pulse-position modulation systems. IEEE Transactions on Communications, 1992, 40, 783-794.	7.8	19

#	Article	IF	Citations
19	Asynchronous Co-channel Interference Suppression in MIMO OFDM Systems. , 2007, , .		18
20	On Some Near Optimal Low Complexity Detectors for MIMO Fading Channels. IEEE Transactions on Wireless Communications, 2007, 6, 1182-1186.	9.2	17
21	Coding for two-head recording systems. IEEE Transactions on Information Theory, 1995, 41, 747-755.	2.4	16
22	Iterative joint sequence and channel estimation for fast time-varying intersymbol interference channels. , 0, , .		16
23	Performance Analysis of Monostatic Multi-Tag Backscatter Systems With General Order Tag Selection. IEEE Wireless Communications Letters, 2020, 9, 1201-1205.	5.0	15
24	Asymptotic Performance Analysis of the kth Best Link Selection Over Wireless Fading Channels: An Extreme Value Theory Approach. IEEE Transactions on Vehicular Technology, 2018, 67, 6652-6657.	6.3	13
25	Bounds on Codes Based on Graph Theory. , 2007, , .		12
26	A new construction method for networks from matroids. , 2009, , .		12
27	Turbo decoding of quantized data. IEEE Transactions on Communications, 2002, 50, 56-64.	7.8	11
28	On Asymptotic Statistics for Geometric Routing Schemes in Wireless Ad Hoc Networks. IEEE/ACM Transactions on Networking, 2015, 23, 559-573.	3.8	11
29	Asymptotic Performance Analysis of Generalized User Selection for Interference-Limited Multiuser Secondary Networks. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 82-92.	7.9	11
30	Code-search for optimal TSC binary sequences with low cross-correlation spectrum. , 0, , .		10
31	Coding for Visible Light Communication Using Color-Shift Keying Constellations. IEEE Transactions on Communications, 2019, 67, 4955-4966.	7.8	10
32	On PPM sequences with good autocorrelation properties. IEEE Transactions on Information Theory, 1988, 34, 571-576.	2.4	8
33	On the synchronizability and detectability of random PPM sequences. IEEE Transactions on Information Theory, 1989, 35, 146-156.	2.4	8
34	On symbol synchronization of MPPM sequences. IEEE Transactions on Communications, 1998, 46, 587-589.	7.8	8
35	Generalized product accumulate codes: analysis and performance. , 0, , .		8
36	Error-Control Coding Techniques and Applications. , 2002, , 902-964.		8

#	Article	IF	Citations
37	Throughput efficiency considerations for optical OPPM. , 0, , .		7
38	Adaptive data transmission based on band-selection for MC-CDMA systems. , 0, , .		7
39	Robust beamforming with channel uncertainty for two-way relay networks. , 2012, , .		7
40	Linearized Robust Beamforming for Two-Way Relay Systems. IEEE Signal Processing Letters, 2014, 21, 1017-1021.	3.6	7
41	Maximum-likelihood symbol synchronization and detection of OPPM sequences. IEEE Transactions on Communications, 1994, 42, 2282-2290.	7.8	6
42	Robust Network Coding for Bidirected Networks. , 2007, , .		6
43	A Probabilistic Model of Spectrum Availability for OFDMA Based Cognitive Radio Systems. IEEE Communications Letters, 2012, 16, 1780-1783.	4.1	6
44	Code Design in Visible Light Communications Using Color-Shift-Keying Constellations. , 2016, , .		6
45	Non–data–aided ML carrier frequency and phase synchronization in OFDM systems. European Transactions on Telecommunications, 2001, 12, 83-94.	1.2	5
46	Two EM-type channel estimation algorithms for OFDM with transmitter diversity. , 2002, , .		5
47	A distributed source coding technique for highly correlated images using turbo-codes. , 2002, , .		5
48	Spatio-temporal measurement and model for number of occupied channels. , 2011, , .		5
49	On the Probabilistic Model for Primary and Secondary User Activity for OFDMA-Based Cognitive Radio Systems: Spectrum Occupancy and System Throughput Perspectives. IEEE Transactions on Wireless Communications, 2014, 13, 356-369.	9.2	5
50	Joint random spectrum sensing and access scheme for decentralized cognitive radio networks. , 2014, , .		4
51	Large Overlaid Cognitive Radio Networks: From Throughput Scaling to Asymptotic Multiplexing Gain. IEEE Transactions on Wireless Communications, 2014, 13, 3042-3055.	9.2	4
52	On the effective rate of MISO/TAS systems in Rayleigh fading. , 2017, , .		4
53	On the Secrecy Performance of Generalized User Selection for Interference-Limited Multiuser Wireless Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 12442-12446.	6.3	4
54	On the Throughput of Interference-Based Wireless Powered Communications With Receive Antenna Selection. IEEE Transactions on Vehicular Technology, 2020, 69, 3048-3056.	6.3	4

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55	Maximum-likelihood detection in the presence of interference. , 0, , .		3
56	Product accumulate codes: properties and performance. , 0, , .		3
57	Joint sequential channel estimation and multiuser detection for uplink CDMA over multipath fading. , 0, , .		2
58	A Position Estimation Algorithm for Vehicle Following. , 1992, , .		2
59	Maximum-likelihood sequence estimation for fading channels via the EM algorithm. , 0, , .		2
60	Blind frequency compensation for binary CPM with h=1/2 and a positive frequency pulse. , 0, , .		2
61	Effect of shadowing on the performance of space-time trellis coded systems. , 0, , .		2
62	Resolving the ambiguities due to spatial undersampling in wideband uniform linear arrays. , 2005, , .		2
63	Optimum Bit-by-Bit Power Allocation for Minimum Distortion Transmission. , 2006, , .		2
64	Asymptotic Performance Analysis of Multiuser Diversity in Free Space Optical Communication Systems. , 2017, , .		2
65	Fundamentals of Faster-than-Nyquist Signaling. , 2017, , 203-222.		2
66	Synchronization. , 2002, , .		2
67	Simulation performance of optimal and suboptimal nonsynchronized receivers. IEEE Transactions on Communications, 1989, 37, 407-411.	7.8	1
68	A five-head, three-track, magnetic recording channel. , 0, , .		1
69	Least-square estimation for nonlinear systems with applications to phase and envelope estimation in wireless fading channels. , 2008, , .		1
70	On secrecy capacity per unit cost. , 2009, , .		1
71	Secret writing on dirty paper: A deterministic view. , 2011, , .		1
72	Spectrum availability model of secondary users in cognitive radio networks. , 2012, , .		1

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73	Statistical analysis of secondary users throughput for OFDMA cognitive radio networks. , 2013, , .		1
74	Signaling over high-speed optical intersatellite links. , 0, , .		0
75	Pilot symbol initiated optimal decoder for the land mobile fading channel. , 1995, , .		0
76	ISI channel estimation using complementary sequences. , 0, , .		0
77	Some results on channel estimation and detection for space-time OFDM systems. , 0, , .		0
78	Block code design based on metric-spectrum. , 0, , .		0
79	A selective survey on ISM-band noise profile measurement and forecasting. , 2005, , .		0
80	Robust estimation with applications to phase and envelope estimation in frequency selective wireless fading channels. , 2008, , .		0
81	Asymptotic Performance of ALOHA-Based Cognitive Overlaid Networks. , 2010, , .		0
82	Modulation and coding for high rate optical intersatellite links. , 1994, , .		0