Giorgio Taricco

List of Publications by Year in descending order

95 papers	5,146 citations	279798 23 h-index	106344 65 g-index
95 all docs	95 docs citations	95 times ranked	2010 citing authors

#	Article	IF	Citations
1	Series Expansions and Approximations of the Nakagami-m Sum Probability Density Function. IEEE Wireless Communications Letters, 2022, 11, 160-164.	5.0	1
2	A Simple Method to Calculate Random-Coding Union Bounds for Ultra-Reliable Low-Latency Communications. IEEE Wireless Communications Letters, 2022, 11, 913-917.	5.0	2
3	Diversity-Multiplexing Tradeoff of Multi-Layer Scattering MIMO Channels. IEEE Wireless Communications Letters, 2020, 9, 2045-2048.	5.0	2
4	Precoding for Flexible High Throughput Satellites: Hot-Spot Scenario. IEEE Transactions on Broadcasting, 2019, 65, 65-72.	3.2	28
5	On hierarchical modulation for satellite broadcasting. International Journal of Satellite Communications and Networking, 2018, 36, 460-473.	1.8	2
6	Outage Information Rate of Doubly Correlated Multi-Cluster Scattering MIMO Channels. IEEE Wireless Communications Letters, 2018, 7, 1042-1045.	5.0	5
7	Outage information rate of spatially correlated multi-cluster scattering MIMO channels. , 2017, , .		4
8	Precoding in Multibeam Satellite Communications: Present and Future Challenges. IEEE Wireless Communications, 2016, 23, 88-95.	9.0	192
9	On the information rate of sparse ISI channels. , 2015, , .		0
10	Comparative assessment of orthogonal and nonorthogonal multiplexing techniques for differentiated satellite broadcasting services. , 2015, , .		0
11	On the Outage Capacity of Orthogonal Space-Time Block Codes Over Multi-Cluster Scattering MIMO Channels. IEEE Transactions on Communications, 2015, 63, 1700-1711.	7.8	20
12	On the Convergence of Multipath Fading Channel Gains to the Rayleigh Distribution. IEEE Wireless Communications Letters, 2015, 4, 549-552.	5.0	30
13	Outage capacity of OSTBCs over pico-cellular MIMO channels. , 2014, , .		0
14	An asymptotic approximation of the ISI channel capacity. , 2014, , .		4
15	Further Results on the Asymptotic Mutual Information of Rician Fading MIMO Channels. IEEE Transactions on Information Theory, 2013, 59, 894-915.	2.4	7
16	Joint Channel and Data Estimation for Wireless Sensor Networks. IEEE Wireless Communications Letters, 2012, 1, 532-535.	5.0	6
17	Impact of imperfect channel state information on the performance of wireless sensor networks. , 2012, , .		3
18	On the Beamforming Capacity of MISO Channels. IEEE Wireless Communications Letters, 2012, 1, 141-144.	5.0	5

#	Article	IF	Citations
19	Robust detection analysis of linear cooperative spectrum sensing for cognitive radio networks. Physical Communication, 2011, 4, 244-250.	2.1	1
20	Optimization of Linear Cooperative Spectrum Sensing for Cognitive Radio Networks. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 77-86.	10.8	64
21	On the Ergodic Capacity of Correlated Rician Fading MIMO Channels With Interference. IEEE Transactions on Information Theory, 2011, 57, 4123-4137.	2.4	58
22	Optimum Receiver Design and Performance Analysis of Arbitrarily Correlated Rician Fading MIMO Channels With Imperfect Channel State Information. IEEE Transactions on Information Theory, 2010, 56, 1114-1134.	2.4	20
23	Asymptotic Statistics of the Mutual Information for Spatially Correlated Rician Fading MIMO Channels With Interference. IEEE Transactions on Information Theory, 2010, 56, 1542-1559.	2.4	8
24	On the Accuracy of the Gaussian Approximation With Linear Cooperative Spectrum Sensing Over Rician Fading Channels. IEEE Signal Processing Letters, 2010, 17, 651-654.	3.6	14
25	Optimum MIMO-OFDM Detection With Pilot-Aided Channel State Information. IEEE Journal on Selected Topics in Signal Processing, 2009, 3, 1053-1065.	10.8	10
26	Asymptotic Mutual Information Statistics of Separately Correlated Rician Fading MIMO Channels. IEEE Transactions on Information Theory, 2008, 54, 3490-3504.	2.4	79
27	Asymptotic Ergodic Capacity of Wideband MIMO Channels with Separately-Correlated Rician Fading. , 2008, , .		6
28	Asymptotic error performance of space-time codes over fully correlated Rician fading MIMO channels with imperfect CSI. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	0
29	Optimum MIMO-OFDM Receivers with Imperfect Channel State Information. , 2008, , .		0
30	Asymptotic Ergodic Capacity Region and Rate Optimization of a Multiple Access OFDM MIMO Channel with Separately-Correlated Rician Fading. , 2008, , .		7
31	On the Ergodic Capacity Region of the Separately Correlated Rician Fading Multiple Access MIMO Channel. , 2007, , .		7
32	On the Ergodic Capacity of the Asymptotic Separately-Correlated Rician Fading MIMO Channel with Interference. , 2007, , .		13
33	Optimum Receiver Design and Performance Analysis for Fully Correlated Rician Fading MIMO Channels with Imperfect Channel State Information. , 2007, , .		1
34	Second-Order Statistics of the Mutual Information of the Asymptotic Separately-Correlated Rician Fading MIMO Channel with Interference. , 2007, , .		7
35	An Optimum Blind Receiver for Correlated Rician Fading MIMO Channels. IEEE Communications Letters, 2007, 11, 738-739.	4.1	1
36	Performance of an optimum receiver scheme based on pilot-symbol channel estimation over a measured mimo channel. , 2007, , .		2

#	Article	IF	Citations
37	Optimum Receiver Design for Correlated Rician Fading MIMO Channels with Pilot-Aided Detection. IEEE Journal on Selected Areas in Communications, 2007, 25, 1311-1321.	14.0	39
38	CTH09-1: On the Capacity of Separately-Correlated MIMO Rician Fading Channels.. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	16
39	Linear receivers for the multiple-input multiple-output multiple-access channel. IEEE Transactions on Communications, 2006, 54, 1446-1456.	7.8	15
40	On the Ergodic Capacity-Achieving Covariance Matrix of Certain Classes of MIMO Channels. IEEE Transactions on Information Theory, 2006, 52, 3810-3817.	2.4	29
41	Separate linear receiver interfaces for MIMO multiple-access channels. IEEE Signal Processing Letters, 2006, 13, 325-328.	3.6	1
42	Doubly Iterative Decoding of Spaceâ€“Time Turbo Codes With a Large Number of Antennas. IEEE Transactions on Communications, 2005, 53, 773-779.	7.8	19
43	Space-time decoding with imperfect channel estimation. IEEE Transactions on Wireless Communications, 2005, 4, 1874-1888.	9.2	193
44	MIMO doubly-iterative receivers: pre- vs. post-cancellation filtering. IEEE Communications Letters, 2005, 9, 106-108.	4.1	11
45	Doubly-iterative decoding of space-time turbo codes with a large number of antennas. , 2004, , .		3
46	Iterative receivers for coded MIMO signaling. Wireless Communications and Mobile Computing, 2004, 4, 697-710.	1.2	6
47	Decoding space-time codes with imperfect channel estimation. , 2004, , .		6
48	Transmission and Reception with Multiple Antennas: Theoretical Foundations. Foundations and Trends in Communications and Information Theory, 2004, 1, 183-332.	3.1	47
49	Correction to "Exact pairwise error probability of space-time codes". IEEE Transactions on Information Theory, 2003, 49, 766-766.	2.4	3
50	Suboptimum receiver interfaces and space-time codes. IEEE Transactions on Signal Processing, 2003, 51, 2720-2728.	5.3	18
51	Large-system analyses of multiple-antenna system capacities. Journal of Communications and Networks, 2003, 5, 96-103.	2.6	15
52	Performance of certain receiver interfaces for space-time coded mimo fading channels. , 2003, , .		0
53	Decoding space-time codes with BLAST architectures. IEEE Transactions on Signal Processing, 2002, 50, 2547-2552.	5.3	49
54	Coding for the Wireless Channel. , 2002, , 61-80.		5

#	Article	IF	Citations
55	Exact pairwise error probability of space-time codes. IEEE Transactions on Information Theory, 2002, 48, 510-513.	2.4	136
56	Performance of space-time codes for a large number of antennas. IEEE Transactions on Information Theory, 2002, 48, 1794-1803.	2.4	139
57	Spectral Efficiency of Cellular Mobile Radio Systems with Different Traffic Loads. AEU - International Journal of Electronics and Communications, 2002, 56, 99-107.	2.9	0
58	How fading affects CDMA: an asymptotic analysis with linear receivers. IEEE Journal on Selected Areas in Communications, 2001, 19, 191-201.	14.0	21
59	Time-transfer performance in burst-mode communication systems. IEEE Journal on Selected Areas in Communications, 2001, 19, 2310-2319.	14.0	4
60	Limiting performance of block-fading channels with multiple antennas. IEEE Transactions on Information Theory, 2001, 47, 1273-1289.	2.4	266
61	Coding for the fading channel: a survey. Signal Processing, 2000, 80, 1135-1148.	3.7	18
62	CDMA system design through asymptotic analysis. IEEE Transactions on Communications, 2000, 48, 1882-1896.	7.8	30
63	Optimum power control over fading channels. IEEE Transactions on Information Theory, 1999, 45, 1468-1489.	2.4	620
64	Optimal energy transfer in band-limited communication channels. IEEE Transactions on Information Theory, 1999, 45, 2020-2029.	2.4	10
65	Impact of channel-state information on coded transmission over fading channels with diversity reception. IEEE Transactions on Communications, 1999, 47, 1284-1287.	7.8	7
66	Bit-interleaved coded modulation. IEEE Transactions on Information Theory, 1998, 44, 927-946.	2.4	2,034
67	Performance of high-diversity multidimensional constellations. IEEE Transactions on Information Theory, 1998, 44, 1539-1543.	2.4	13
68	Computing error probabilities over fading channels: A unified approach. European Transactions on Telecommunications, 1998, 9, 15-25.	1.2	129
69	Coding and modulation under power constraints. IEEE Personal Communications, 1998, 5, 32-39.	3.8	22
70	Capacity of cellular mobile radio systems. Electronics Letters, 1998, 34, 517.	1.0	5
71	Capacity of fading channel with no side information. Electronics Letters, 1997, 33, 1368.	1.0	84
72	A multiuser approach to narrowband cellular communications. IEEE Transactions on Information Theory, 1997, 43, 1503-1517.	2.4	25

#	Article	IF	Citations
73	Impact of diversity reception on fading channels with coded modulation. I. Coherent detection. IEEE Transactions on Communications, 1997, 45, 563-572.	7.8	66
74	Impact of diversity reception on fading channels with coded modulation. II. Differential block detection. IEEE Transactions on Communications, 1997, 45, 676-686.	7.8	34
75	Impact of diversity reception on fading channels with coded modulation. III. Co-channel interference. IEEE Transactions on Communications, 1997, 45, 809-818.	7.8	11
76	Coding and Modulation for the Fading Channel. , 1997, , 21-39.		2
77	Simple method for evaluating error probabilities. Electronics Letters, 1996, 32, 191.	1.0	127
78	Letter: On the capacity of the binary input gaussian and rayleigh fading channels. European Transactions on Telecommunications, 1996, 7, 201-208.	1.2	13
79	Simulation of three MAC protocols for intelligent highway packet radio networks. Computer Communications, 1996, 19, 943-953.	5.1	4
80	Performance of component interleaved signal sets for fading channels. Electronics Letters, 1996, 32, 1170.	1.0	54
81	Capacity of bit-interleaved channels. Electronics Letters, 1996, 32, 1060.	1.0	83
82	Coded Modulations and Diversity for Satellite Cellular Communications. Kluwer International Series in Engineering and Computer Science, 1996, , 57-72.	0.2	1
83	Approximating the pairwise error probability for fading channels. Electronics Letters, 1995, 31, 1625-1627.	1.0	12
84	The Distance Between Two Points Moving On A Graph. International Journal of Modelling and Simulation, 1995, 15, 120-124.	3.3	1
85	Applicability of fourâ€dimensional modulations to digital satellites: a simulation study. European Transactions on Telecommunications, 1995, 6, 327-336.	1.2	4
86	Weight distribution and performance of the iterated product of single-parity-check codes. Annales Des Telecommunications/Annals of Telecommunications, 1995, 50, 752-761.	2.5	4
87	A note on linear equations modeling birth-and-death processes. Mathematical and Computer Modelling, 1992, 16, 61-69.	2.0	2
88	How far away is infinity? Using asymptotic analyses in multiple-antenna systems. , 0, , .		41
89	Weight distribution and performance of the iterated product of single-parity-check codes. , 0, , .		19
90	Coding for the block-fading channel: optimum and suboptimum power-allocation schemes. , 0, , .		4

#	Article	IF	Citations
91	Fractionally-spaced multiuser receivers with array observations. , 0, , .		0
92	Decoding space-time codes with BLAST architectures. , 0, , .		15
93	Linear receivers for multiple-antenna communication channels: an asymptotic analysis. , 0, , .		1
94	Linear receivers for multiuser MIMO channels. , 0, , .		1
95	On jamming detection methods for satellite Internet of Things networks. International Journal of Satellite Communications and Networking, 0, , .	1.8	0