Giorgio Taricco

List of Publications by Year
in descending order

95 papers	5,146 citations	279487 23 h-index	106150 65 g-index
95 all docs	95 docs citations	95 times ranked	2010 citing authors

#	Article	IF	Citations
1	Bit-interleaved coded modulation. IEEE Transactions on Information Theory, 1998, 44, 927-946.	1.5	2,034
2	Optimum power control over fading channels. IEEE Transactions on Information Theory, 1999, 45, 1468-1489.	1.5	620
3	Limiting performance of block-fading channels with multiple antennas. IEEE Transactions on Information Theory, 2001, 47, 1273-1289.	1.5	266
4	Space-time decoding with imperfect channel estimation. IEEE Transactions on Wireless Communications, 2005, 4, 1874-1888.	6.1	193
5	Precoding in Multibeam Satellite Communications: Present and Future Challenges. IEEE Wireless Communications, 2016, 23, 88-95.	6.6	192
6	Performance of space-time codes for a large number of antennas. IEEE Transactions on Information Theory, 2002, 48, 1794-1803.	1.5	139
7	Exact pairwise error probability of space-time codes. IEEE Transactions on Information Theory, 2002, 48, 510-513.	1.5	136
8	Computing error probabilities over fading channels: A unified approach. European Transactions on Telecommunications, 1998, 9, 15-25.	1.2	129
9	Simple method for evaluating error probabilities. Electronics Letters, 1996, 32, 191.	0.5	127
10	Capacity of fading channel with no side information. Electronics Letters, 1997, 33, 1368.	0.5	84
11	Capacity of bit-interleaved channels. Electronics Letters, 1996, 32, 1060.	0.5	83
12	Asymptotic Mutual Information Statistics of Separately Correlated Rician Fading MIMO Channels. IEEE Transactions on Information Theory, 2008, 54, 3490-3504.	1.5	79
13	Impact of diversity reception on fading channels with coded modulation. I. Coherent detection. IEEE Transactions on Communications, 1997, 45, 563-572.	4.9	66
14	Optimization of Linear Cooperative Spectrum Sensing for Cognitive Radio Networks. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 77-86.	7.3	64
15	On the Ergodic Capacity of Correlated Rician Fading MIMO Channels With Interference. IEEE Transactions on Information Theory, 2011, 57, 4123-4137.	1.5	58
16	Performance of component interleaved signal sets for fading channels. Electronics Letters, 1996, 32, 1170.	0.5	54
17	Decoding space-time codes with BLAST architectures. IEEE Transactions on Signal Processing, 2002, 50, 2547-2552.	3.2	49
18	Transmission and Reception with Multiple Antennas: Theoretical Foundations. Foundations and Trends in Communications and Information Theory, 2004, 1, 183-332.	2.4	47

#	Article	IF	Citations
19	How far away is infinity? Using asymptotic analyses in multiple-antenna systems. , 0, , .		41
20	Optimum Receiver Design for Correlated Rician Fading MIMO Channels with Pilot-Aided Detection. IEEE Journal on Selected Areas in Communications, 2007, 25, 1311-1321.	9.7	39
21	Impact of diversity reception on fading channels with coded modulation. II. Differential block detection. IEEE Transactions on Communications, 1997, 45, 676-686.	4.9	34
22	CDMA system design through asymptotic analysis. IEEE Transactions on Communications, 2000, 48, 1882-1896.	4.9	30
23	On the Convergence of Multipath Fading Channel Gains to the Rayleigh Distribution. IEEE Wireless Communications Letters, 2015, 4, 549-552.	3.2	30
24	On the Ergodic Capacity-Achieving Covariance Matrix of Certain Classes of MIMO Channels. IEEE Transactions on Information Theory, 2006, 52, 3810-3817.	1.5	29
25	Precoding for Flexible High Throughput Satellites: Hot-Spot Scenario. IEEE Transactions on Broadcasting, 2019, 65, 65-72.	2.5	28
26	A multiuser approach to narrowband cellular communications. IEEE Transactions on Information Theory, 1997, 43, 1503-1517.	1.5	25
27	Coding and modulation under power constraints. IEEE Personal Communications, 1998, 5, 32-39.	4.5	22
28	How fading affects CDMA: an asymptotic analysis with linear receivers. IEEE Journal on Selected Areas in Communications, 2001, 19, 191-201.	9.7	21
29	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.	1.5	20
30	On the Outage Capacity of Orthogonal Space-Time Block Codes Over Multi-Cluster Scattering MIMO Channels. IEEE Transactions on Communications, 2015, 63, 1700-1711.	4.9	20
31	Weight distribution and performance of the iterated product of single-parity-check codes. , 0, , .		19
32	Doubly Iterative Decoding of Space–Time Turbo Codes With a Large Number of Antennas. IEEE Transactions on Communications, 2005, 53, 773-779.	4.9	19
33	Coding for the fading channel: a survey. Signal Processing, 2000, 80, 1135-1148.	2.1	18
34	Suboptimum receiver interfaces and space-time codes. IEEE Transactions on Signal Processing, 2003, 51, 2720-2728.	3.2	18
35	CTH09-1: On the Capacity of Separately-Correlated MIMO Rician Fading Channels.. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	16
36	Decoding space-time codes with BLAST architectures. , 0, , .		15

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37	Large-system analyses of multiple-antenna system capacities. Journal of Communications and Networks, 2003, 5, 96-103.	1.8	15
38	Linear receivers for the multiple-input multiple-output multiple-access channel. IEEE Transactions on Communications, 2006, 54, 1446-1456.	4.9	15
39	On the Accuracy of the Gaussian Approximation With Linear Cooperative Spectrum Sensing Over Rician Fading Channels. IEEE Signal Processing Letters, 2010, 17, 651-654.	2.1	14
40	Letter: On the capacity of the binary input gaussian and rayleigh fading channels. European Transactions on Telecommunications, 1996, 7, 201-208.	1.2	13
41	Performance of high-diversity multidimensional constellations. IEEE Transactions on Information Theory, 1998, 44, 1539-1543.	1.5	13
42	On the Ergodic Capacity of the Asymptotic Separately-Correlated Rician Fading MIMO Channel with Interference. , 2007, , .		13
43	Approximating the pairwise error probability for fading channels. Electronics Letters, 1995, 31, 1625-1627.	0.5	12
44	Impact of diversity reception on fading channels with coded modulation. III. Co-channel interference. IEEE Transactions on Communications, 1997, 45, 809-818.	4.9	11
45	MIMO doubly-iterative receivers: pre- vs. post-cancellation filtering. IEEE Communications Letters, 2005, 9, 106-108.	2.5	11
46	Optimal energy transfer in band-limited communication channels. IEEE Transactions on Information Theory, 1999, 45, 2020-2029.	1.5	10
47	Optimum MIMO-OFDM Detection With Pilot-Aided Channel State Information. IEEE Journal on Selected Topics in Signal Processing, 2009, 3, 1053-1065.	7.3	10
48	Asymptotic Statistics of the Mutual Information for Spatially Correlated Rician Fading MIMO Channels With Interference. IEEE Transactions on Information Theory, 2010, 56, 1542-1559.	1.5	8
49	Impact of channel-state information on coded transmission over fading channels with diversity reception. IEEE Transactions on Communications, 1999, 47, 1284-1287.	4.9	7
50	On the Ergodic Capacity Region of the Separately Correlated Rician Fading Multiple Access MIMO Channel. , 2007, , .		7
51	Second-Order Statistics of the Mutual Information of the Asymptotic Separately-Correlated Rician Fading MIMO Channel with Interference. , 2007, , .		7
52	Asymptotic Ergodic Capacity Region and Rate Optimization of a Multiple Access OFDM MIMO Channel with Separately-Correlated Rician Fading. , 2008, , .		7
53	Further Results on the Asymptotic Mutual Information of Rician Fading MIMO Channels. IEEE Transactions on Information Theory, 2013, 59, 894-915.	1.5	7
54	Iterative receivers for coded MIMO signaling. Wireless Communications and Mobile Computing, 2004, 4, 697-710.	0.8	6

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55	Decoding space-time codes with imperfect channel estimation. , 2004, , .		6
56	Asymptotic Ergodic Capacity of Wideband MIMO Channels with Separately-Correlated Rician Fading. , 2008, , .		6
57	Joint Channel and Data Estimation for Wireless Sensor Networks. IEEE Wireless Communications Letters, 2012, 1, 532-535.	3.2	6
58	Capacity of cellular mobile radio systems. Electronics Letters, 1998, 34, 517.	0.5	5
59	Coding for the Wireless Channel. , 2002, , 61-80.		5
60	On the Beamforming Capacity of MISO Channels. IEEE Wireless Communications Letters, 2012, 1, 141-144.	3.2	5
61	Outage Information Rate of Doubly Correlated Multi-Cluster Scattering MIMO Channels. IEEE Wireless Communications Letters, 2018, 7, 1042-1045.	3.2	5
62	Applicability of four€dimensional modulations to digital satellites: a simulation study. European Transactions on Telecommunications, 1995, 6, 327-336.	1.2	4
63	Weight distribution and performance of the iterated product of single-parity-check codes. Annales Des Telecommunications/Annals of Telecommunications, 1995, 50, 752-761.	1.6	4
64	Simulation of three MAC protocols for intelligent highway packet radio networks. Computer Communications, 1996, 19, 943-953.	3.1	4
65	Coding for the block-fading channel: optimum and suboptimum power-allocation schemes. , 0, , .		4
66	Time-transfer performance in burst-mode communication systems. IEEE Journal on Selected Areas in Communications, 2001, 19, 2310-2319.	9.7	4
67	An asymptotic approximation of the ISI channel capacity. , 2014, , .		4
68	Outage information rate of spatially correlated multi-cluster scattering MIMO channels. , 2017, , .		4
69	Correction to "Exact pairwise error probability of space-time codes". IEEE Transactions on Information Theory, 2003, 49, 766-766.	1.5	3
70	Doubly-iterative decoding of space-time turbo codes with a large number of antennas. , 2004, , .		3
71	Impact of imperfect channel state information on the performance of wireless sensor networks. , 2012, , .		3
72	A note on linear equations modeling birth-and-death processes. Mathematical and Computer Modelling, 1992, 16, 61-69.	2.0	2

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73	Performance of an optimum receiver scheme based on pilot-symbol channel estimation over a measured mimo channel. , 2007, , .		2
74	On hierarchical modulation for satellite broadcasting. International Journal of Satellite Communications and Networking, 2018, 36, 460-473.	1.2	2
75	Diversity-Multiplexing Tradeoff of Multi-Layer Scattering MIMO Channels. IEEE Wireless Communications Letters, 2020, 9, 2045-2048.	3.2	2
76	Coding and Modulation for the Fading Channel. , 1997, , 21-39.		2
77	A Simple Method to Calculate Random-Coding Union Bounds for Ultra-Reliable Low-Latency Communications. IEEE Wireless Communications Letters, 2022, 11, 913-917.	3.2	2
78	The Distance Between Two Points Moving On A Graph. International Journal of Modelling and Simulation, 1995, 15, 120-124.	2.3	1
79	Linear receivers for multiple-antenna communication channels: an asymptotic analysis. , 0, , .		1
80	Linear receivers for multiuser MIMO channels. , 0, , .		1
81	Separate linear receiver interfaces for MIMO multiple-access channels. IEEE Signal Processing Letters, 2006, 13, 325-328.	2.1	1
82	Optimum Receiver Design and Performance Analysis for Fully Correlated Rician Fading MIMO Channels with Imperfect Channel State Information. , 2007, , .		1
83	An Optimum Blind Receiver for Correlated Rician Fading MIMO Channels. IEEE Communications Letters, 2007, 11, 738-739.	2.5	1
84	Robust detection analysis of linear cooperative spectrum sensing for cognitive radio networks. Physical Communication, 2011, 4, 244-250.	1.2	1
85	Coded Modulations and Diversity for Satellite Cellular Communications. Kluwer International Series in Engineering and Computer Science, 1996, , 57-72.	0.2	1
86	Series Expansions and Approximations of the Nakagami-m Sum Probability Density Function. IEEE Wireless Communications Letters, 2022, 11, 160-164.	3.2	1
87	Fractionally-spaced multiuser receivers with array observations. , 0, , .		0
88	Spectral Efficiency of Cellular Mobile Radio Systems with Different Traffic Loads. AEU - International Journal of Electronics and Communications, 2002, 56, 99-107.	1.7	0
89	Performance of certain receiver interfaces for space-time coded mimo fading channels. , 2003, , .		0
90	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

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91	Optimum MIMO-OFDM Receivers with Imperfect Channel State Information. , 2008, , .		0
92	Outage capacity of OSTBCs over pico-cellular MIMO channels. , 2014, , .		0
93	On the information rate of sparse ISI channels. , 2015, , .		0
94	Comparative assessment of orthogonal and nonorthogonal multiplexing techniques for differentiated satellite broadcasting services. , 2015, , .		0
95	On jamming detection methods for satellite Internet of Things networks. International Journal of Satellite Communications and Networking, 0, , .	1.2	0