

# Rakshith Rajashekar

## List of Publications by Year in Descending Order

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**Version:** 2024-04-25

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71  
papers

1,398  
citations

20  
h-index

35  
g-index

71  
ext. papers

1,646  
ext. citations

7  
avg, IF

5.07  
L-index

#	Paper	IF	Citations
71	Reconfigurable Intelligent Surface Assisted Multi-Carrier Wireless Systems for Doubly Selective High-Mobility Ricean Channels. <i>IEEE Transactions on Vehicular Technology</i> , <b>2022</b> , 1-1	6.8	3
70	Joint Training of the Superimposed Direct and Reflected Links in Reconfigurable Intelligent Surface Assisted Multiuser Communications. <i>IEEE Transactions on Green Communications and Networking</i> , <b>2022</b> , 1-1	4	2
69	Unity-Rate Coding Improves the Iterative Detection Convergence of Autoencoder-Aided Communication Systems. <i>IEEE Transactions on Vehicular Technology</i> , <b>2022</b> , 1-1	6.8	0
68	The Achievable Rate Analysis of Generalized Quadrature Spatial Modulation and a Pair of Low-Complexity Detectors. <i>IEEE Transactions on Vehicular Technology</i> , <b>2022</b> , 1-1	6.8	
67	Turbo Detection Aided Autoencoder for Multi-Carrier Wireless Systems: Integrating Deep Learning into Channel Coded Systems. <i>IEEE Transactions on Cognitive Communications and Networking</i> , <b>2022</b> , 1-1	6.6	2
66	Deep Learning-Aided Optical IM/DD OFDM Approaches the Throughput of RF-OFDM. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2021</b> , 1-1	14.2	0
65	Low-Complexity Channel Estimation and Passive Beamforming for RIS-Assisted MIMO Systems Relying on Discrete Phase Shifts. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 1-1	6.9	8
64	Low-Complexity Improved-Rate Generalised Spatial Modulation: Bit-to-Symbol Mapping, Detection and Performance Analysis. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 1-1	6.8	3
63	. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 20, 3847-3864	9.6	1
62	Fifty Years of Noise Modeling and Mitigation in Power-Line Communications. <i>IEEE Communications Surveys and Tutorials</i> , <b>2021</b> , 23, 41-69	37.1	8
61	Iterative Receiver Design for Polar-Coded SCMA Systems. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 69, 4235-4246	6.9	6
60	Artificially Time-Varying Differential MIMO for Achieving Practical Physical Layer Security. <i>IEEE Open Journal of the Communications Society</i> , <b>2021</b> , 2, 2180-2194	6.7	2
59	Optimal Pilot Power Based Channel Estimation Improves the Throughput of Intelligent Reflective Surface Assisted Systems. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 16202-16206	6.8	8
58	Near-Instantaneously Adaptive Multi-Set Space-Time Shift Keying for UAV-Aided Video Surveillance. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 12843-12856	6.8	2
57	Scalable Panoramic Wireless Video Streaming Relying on Optimal-Rate FEC-Coded Adaptive QAM. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 11206-11219	6.8	3
56	Constant-Envelope Space-Time Shift Keying. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2019</b> , 13, 1387-1402	7.5	9
55	Subcarrier Subset Selection-Aided Transmit Precoding Achieves Full-Diversity in Index Modulation. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 11031-11041	6.8	2

54	Differential-Detection Aided Large-Scale Generalized Spatial Modulation is Capable of Operating in High-Mobility Millimeter-Wave Channels. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2019</b> , 13, 1360-1374	7.5	20
53	Performance of HARQ-Assisted OFDM Systems Contaminated by Impulsive Noise: Finite-Length LDPC Code Analysis. <i>IEEE Access</i> , <b>2019</b> , 7, 14112-14123	3.5	6
52	Multicarrier Division Duplex Aided Millimeter Wave Communications. <i>IEEE Access</i> , <b>2019</b> , 7, 100719-100732	3.5	6
51	Adaptive Coherent/Non-Coherent Spatial Modulation Aided Unmanned Aircraft Systems. <i>IEEE Wireless Communications</i> , <b>2019</b> , 26, 170-177	13.4	24
50	Near-Perfect Finite-Cardinality Generalized Space-Time Shift Keying. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2019</b> , 37, 2146-2164	14.2	10
49	Energy Efficient Transmission Based on Grouped Spatial Modulation for Upstream DSL Systems. <i>IEEE Access</i> , <b>2019</b> , 7, 88312-88326	3.5	
48	Generalized Space Time Block Coded Spatial Modulation Systems <b>2019</b> ,		2
47	Sixty Years of Coherent Versus Non-Coherent Tradeoffs and the Road From 5G to Wireless Futures. <i>IEEE Access</i> , <b>2019</b> , 7, 178246-178299	3.5	29
46	Transmit Antenna Subset Selection in Generalized Spatial Modulation Systems. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 1979-1983	6.8	7
45	. <i>IEEE Transactions on Communications</i> , <b>2019</b> , 67, 1099-1116	6.9	19
44	. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2019</b> , 37, 48-60	14.2	4
43	Finite-Cardinality Single-RF Differential Space-Time Modulation for Improving the Diversity-Throughput Tradeoff. <i>IEEE Transactions on Communications</i> , <b>2019</b> , 67, 318-335	6.9	18
42	Transmit Antenna Subset Selection in Spatial Modulation Relying on a Realistic Error-Infested Feedback Channel. <i>IEEE Access</i> , <b>2018</b> , 6, 5879-5890	3.5	6
41	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 6156-6169	6.8	13
40	Compressed-Sensing Assisted Spatial Multiplexing Aided Spatial Modulation. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 794-807	9.6	25
39	. <i>IEEE Transactions on Signal Processing</i> , <b>2018</b> , 66, 773-788	4.8	20
38	Differential Space-Time Coding Dispensing With Channel Estimation Approaches the Performance of Its Coherent Counterpart in the Open-Loop Massive MIMO-OFDM Downlink. <i>IEEE Transactions on Communications</i> , <b>2018</b> , 66, 6190-6204	6.9	15
37	A Beamforming-Aided Full-Diversity Scheme for Low-Altitude Air-to-Ground Communication Systems Operating With Limited Feedback. <i>IEEE Transactions on Communications</i> , <b>2018</b> , 66, 6602-6613	6.9	7

36	Air-to-Ground NOMA Systems for the Internet-Above-the-Clouds. <i>IEEE Access</i> , <b>2018</b> , 6, 47442-47460	3.5	3
35	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2017</b> , 66, 385-394	6.8	35
34	Iterative Matrix Decomposition Aided Block Diagonalization for mm-Wave Multiuser MIMO Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 1372-1384	9.6	67
33	Two Decades of MIMO Design Tradeoffs and Reduced-Complexity MIMO Detection in Near-Capacity Systems. <i>IEEE Access</i> , <b>2017</b> , 5, 18564-18632	3.5	47
32	. <i>IEEE Access</i> , <b>2017</b> , 5, 5760-5772	3.5	12
31	. <i>IEEE Transactions on Communications</i> , <b>2017</b> , 1-1	6.9	21
30	A Generalized Transmit and Receive Diversity Condition for Feedback-Assisted MIMO Systems: Theory and Applications in Full-Duplex Spatial Modulation. <i>IEEE Transactions on Signal Processing</i> , <b>2017</b> , 65, 6505-6519	4.8	13
29	Joint Impulsive Noise Estimation and Data Detection Conceived for LDPC-Coded DMT-Based DSL Systems. <i>IEEE Access</i> , <b>2017</b> , 5, 23133-23145	3.5	4
28	Hybrid Beamforming in mm-Wave MIMO Systems Having a Finite Input Alphabet. <i>IEEE Transactions on Communications</i> , <b>2016</b> , 64, 3337-3349	6.9	31
27	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2016</b> , 65, 8345-8360	6.8	9
26	Soft-Decision Multiple-Symbol Differential Sphere Detection and Decision-Feedback Differential Detection for Differential QAM Dispensing with Channel Estimation in the Face of Rapidly Fading Channels. <i>IEEE Transactions on Wireless Communications</i> , <b>2016</b> , 15, 4408-4425	9.6	7
25	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2016</b> , 1-1	6.8	49
24	Near-Capacity Wireless System Design Principles. <i>IEEE Communications Surveys and Tutorials</i> , <b>2015</b> , 17, 1806-1833	37.1	17
23	Reduced-Complexity Soft-Decision Multiple-Symbol Differential Sphere Detection. <i>IEEE Transactions on Communications</i> , <b>2015</b> , 63, 3275-3289	6.9	8
22	Quantifying the Transmit Diversity Order of Euclidean Distance Based Antenna Selection in Spatial Modulation. <i>IEEE Signal Processing Letters</i> , <b>2015</b> , 22, 1434-1437	3.2	47
21	Reduced-Complexity ML Detection and Capacity-Optimized Training for Spatial Modulation Systems. <i>IEEE Transactions on Communications</i> , <b>2014</b> , 62, 112-125	6.9	134
20	Multiple-Symbol Joint Signal Processing for Differentially Encoded Single- and Multi-Carrier Communications: Principles, Designs and Applications. <i>IEEE Communications Surveys and Tutorials</i> , <b>2014</b> , 16, 689-712	37.1	14
19	Antenna Selection in Spatial Modulation Systems. <i>IEEE Communications Letters</i> , <b>2013</b> , 17, 521-524	3.8	141

18	Spatial Modulation Aided Zero-Padded Single Carrier Transmission for Dispersive Channels. <i>IEEE Transactions on Communications</i> , <b>2013</b> , 61, 2318-2329	6.9	37
17	Structured dispersion matrices from division algebra codes for space-time shift keying. <i>IEEE Signal Processing Letters</i> , <b>2013</b> , 20, 371-374	3.2	9
16	A Reduced-Complexity Partial-Interference-Cancellation Group Decoder for STBCs. <i>IEEE Signal Processing Letters</i> , <b>2013</b> , 20, 929-932	3.2	4
15	Reduced-Complexity Approx-Log-MAP and Max-Log-MAP Soft PSK/QAM Detection Algorithms. <i>IEEE Transactions on Communications</i> , <b>2013</b> , 61, 1415-1425	6.9	16
14	Spatial Modulation and Space-Time Shift Keying: Optimal Performance at a Reduced Detection Complexity. <i>IEEE Transactions on Communications</i> , <b>2013</b> , 61, 206-216	6.9	52
13	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2013</b> , 62, 2633-2643	6.8	13
12	Modulation diversity for Spatial Modulation using Complex Interleaved Orthogonal Design <b>2012</b> ,		28
11	Reduced-Complexity Iterative-Detection-Aided Generalized Space-Time Shift Keying. <i>IEEE Transactions on Vehicular Technology</i> , <b>2012</b> , 61, 3656-3664	6.8	25
10	Space-Time-Frequency Shift Keying for Dispersive Channels. <i>IEEE Signal Processing Letters</i> , <b>2011</b> , 18, 1773-1803	6.8	35
9	Transmit-Diversity-Assisted Space-Shift Keying for Colocated and Distributed/Cooperative MIMO Elements. <i>IEEE Transactions on Vehicular Technology</i> , <b>2011</b> , 60, 2864-2869	6.8	62
8	Reduced-Complexity Coherent Versus Non-Coherent QAM-Aided Space-Time Shift Keying. <i>IEEE Transactions on Communications</i> , <b>2011</b> , 59, 3090-3101	6.9	78
7	Reduced-Complexity Soft-Decision Aided Space-Time Shift Keying. <i>IEEE Signal Processing Letters</i> , <b>2011</b> , 18, 547-550	3.2	16
6	Reduced-Complexity Noncoherently Detected Differential Space-Time Shift Keying. <i>IEEE Signal Processing Letters</i> , <b>2011</b> , 18, 153-156	3.2	28
5	Multiple-Symbol Differential Sphere Detection Aided Differential Space-Time Block Codes Using QAM Constellations. <i>IEEE Signal Processing Letters</i> , <b>2011</b> , 18, 497-500	3.2	15
4	Near-Capacity Irregular Convolutional Coded Cooperative Differential Linear Dispersion Codes Using Multiple-Symbol Differential Detection. <i>IEEE Signal Processing Letters</i> , <b>2011</b> , 18, 173-176	3.2	7
3	Field Extension Code Based Dispersion Matrices for Coherently Detected Space-Time Shift Keying <b>2011</b> ,		5
2	Reduced-complexity noncoherently detected Differential Space-Time Shift Keying <b>2011</b> ,		18
1	Near-Capacity Non-Coherent Network-Coding Aided Scheme for Cooperative Multi-User Communications <b>2011</b> ,		1

