

Pawel A Dmochowski

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7086123/publications.pdf>

Version: 2024-02-01

93
papers

782
citations

759233

12
h-index

752698

20
g-index

93
all docs

93
docs citations

93
times ranked

799
citing authors

#	ARTICLE	IF	CITATIONS
1	The Effects of Limited Channel Knowledge on Cognitive Radio System Capacity. IEEE Transactions on Vehicular Technology, 2013, 62, 927-933.	6.3	68
2	Extrapolation of MIMO Mobile-to-Mobile Wireless Channels Using Parametric-Model-Based Prediction. IEEE Transactions on Vehicular Technology, 2015, 64, 4487-4498.	6.3	37
3	Estimated cardiac vagal tone predicts fetal responses to mother's and stranger's voices. Developmental Psychobiology, 2007, 49, 543-547.	1.6	33
4	Interference and Deployment Issues for Cognitive Radio Systems in Shadowing Environments. , 2009, , .		32
5	Impact of Microwave and mmWave Channel Models on 5G Systems Performance. IEEE Transactions on Antennas and Propagation, 2017, 65, 6505-6520.	5.1	32
6	Impact of Line-of-Sight and Unequal Spatial Correlation on Uplink MU-MIMO Systems. IEEE Wireless Communications Letters, 2017, 6, 634-637.	5.0	32
7	On the impact of antenna topologies for massive MIMO systems. , 2015, , .		21
8	Analysis of the M/M/N/N Queue with Two Types of Arrival Process: Applications to Future Mobile Radio Systems. Journal of Applied Mathematics, 2012, 2012, 1-14.	0.9	20
9	On the Performance of Spatially Correlated Large Antenna Arrays for Millimeter-Wave Frequencies. IEEE Transactions on Antennas and Propagation, 2018, 66, 132-148.	5.1	18
10	Analytical Framework for Full-Dimensional Massive MIMO With Ray-Based Channels. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 1181-1195.	10.8	18
11	Precoding Performance with Codebook Feedback in a MIMO-OFDM System. , 2011, , .		16
12	On the convergence of massive MIMO systems. , 2014, , .		16
13	Performance and analysis of downlink multiuser MIMO systems with regularized zero-forcing precoding in Ricean fading channels. , 2016, , .		16
14	On the General Analysis of Coordinated Regularized Zero-Forcing Precoding: An Application to Two-Tier Small-Cell Networks. IEEE Transactions on Communications, 2017, 65, 3133-3150.	7.8	16
15	Parametric Channel Prediction for Narrowband Mobile MIMO Systems Using Spatio-Temporal Correlation Analysis. , 2013, , .		14
16	Distributed Spectrum Sensing for Cognitive Radio Networks Based on the Sphericity Test. IEEE Transactions on Communications, 2019, 67, 1831-1844.	7.8	14
17	Impact of Channel Knowledge on Cognitive Radio System Capacity. , 2010, , .		13
18	Millimeter Wave Channel Measurements and Modelling in an Indoor Hotspot Scenario at 28 GHz. , 2018, , .		13

#	ARTICLE	IF	CITATIONS
19	Analysis and implementation of reinforcement learning on a GNU Radio cognitive radio platform. , 2010, , .		13
20	Zero-Forcing Precoding Performance in Multiuser MIMO Systems With Heterogeneous Ricean Fading. IEEE Wireless Communications Letters, 2016, , 1-1.	5.0	12
21	Mixture Detectors for Improved Spectrum Sensing. IEEE Transactions on Wireless Communications, 2020, 19, 4335-4348.	9.2	12
22	Theoretical Analysis of 3-D Channel Spatial Correlation and Capacity. IEEE Communications Letters, 2018, 22, 420-423.	4.1	11
23	Interference Management in Cognitive Radio Systems With Feasibility Detection. IEEE Transactions on Vehicular Technology, 2013, 62, 3711-3720.	6.3	10
24	Parametric Channel Prediction for Narrowband MIMO Systems Using Polarized Antenna Arrays. , 2014, , .		10
25	A Differential Codebook with Adaptive Scaling for Limited Feedback MU MISO Systems. IEEE Wireless Communications Letters, 2014, 3, 2-5.	5.0	10
26	Robust Cognitive Radio Cooperative Beamforming. IEEE Transactions on Wireless Communications, 2014, 13, 6370-6381.	9.2	10
27	Coordinated Regularized Zero-Forcing Precoding for Multicell MISO Systems with Limited Feedback. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	6.3	10
28	Analysis of Analog and Digital MRC for Distributed and Centralized MU-MIMO Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 1948-1952.	6.3	10
29	Massive MIMO Asymptotics for Ray-Based Propagation Channels. IEEE Transactions on Wireless Communications, 2020, 19, 3977-3991.	9.2	9
30	BER Upper Bound Expressions in Coded Two-Transmission Schemes With Arbitrarily Spaced Signal Constellations. IEEE Communications Letters, 2016, 20, 248-251.	4.1	8
31	Uplink analysis of large MU-MIMO systems with space-constrained arrays in Ricean fading. , 2017, , .		8
32	Spatial Correlation Variability in Multiuser Systems. , 2018, , .		8
33	Impact of Antenna Selection on Cognitive Radio System Capacity. , 2011, , .		7
34	Statistical interference modelling and deployment issues for cognitive radio systems in shadow fading environments. IET Communications, 2012, 6, 1920-1929.	2.2	7
35	Interference management in cognitive radio systems — A convex optimisation approach. , 2012, , .		7
36	Limited feedback multiuser MISO systems with differential codebooks in correlated channels. , 2013, , .		7

#	ARTICLE	IF	CITATIONS
37	3D vs. 2D channel models: Spatial correlation and channel capacity comparison and analysis. , 2017, , .		7
38	A subband Steiglitz&McBride algorithm for automatic analysis of FID data. Magnetic Resonance in Chemistry, 2018, 56, 740-747.	1.9	7
39	Revisiting Error Analysis in Convolutionally Coded Systems: The Irregular Constellation Case. IEEE Transactions on Communications, 2018, 66, 465-477.	7.8	7
40	Massive MIMO for Ray-Based Channels. , 2019, , .		7
41	Power allocation in underlay cognitive radio systems with feasibility detection. , 2012, , .		6
42	Novel algorithm for prediction of wideband mobile MIMO wireless channels. , 2014, , .		6
43	Interference alignment with combined receivers for heterogeneous networks. , 2014, , .		6
44	On the Number of Independent Channels in Multi-Antenna Systems. IEEE Transactions on Wireless Communications, 2014, 13, 75-85.	9.2	6
45	Measurements of 3D channel impulse response for outdoor-to-indoor scenario: Capacity predictions for different antenna arrays. , 2015, , .		6
46	How Accurate is Your Gaussian/Gamma Approximation?. IEEE Wireless Communications Letters, 2018, 7, 804-807.	5.0	6
47	Interference Cancellation With Jointly Optimized Transceivers in Multiuser Multicellular Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 7219-7229.	6.3	6
48	Revisiting MMSE Combining for Massive MIMO over Heterogeneous Propagation Channels. , 2018, , .		6
49	Novel distributed spectrum sensing techniques for cognitive radio networks. , 2018, , .		6
50	Multi-User Processing for Ray-Based Channels. , 2019, , .		6
51	Timing error detector design and analysis for orthogonal space-time block code receivers. IEEE Transactions on Communications, 2008, 56, 1939-1949.	7.8	5
52	Interference models for heterogenous sources. , 2012, , .		5
53	Double-Cap Differential Codebook Structure for MU MISO Systems in Correlated Channels. IEEE Wireless Communications Letters, 2014, 3, 441-444.	5.0	5
54	Channel prediction for millimeter wave MIMO systems in 3D propagation environments. , 2017, , .		5

#	ARTICLE	IF	CITATIONS
55	Optimal SNR Analysis for Single-user RIS Systems. , 2021, , .		5
56	General analysis of multiuser MIMO systems with regularized zero-forcing precoding under spatially correlated Rayleigh fading channels. , 2016, , .		4
57	Optimal SNR Analysis for Single-User RIS Systems in Ricean and Rayleigh Environments. IEEE Transactions on Wireless Communications, 2022, 21, 9834-9849.	9.2	4
58	Design of Timing Error Detectors for Orthogonal Space-Time Block Codes. , 2006, , .		3
59	Capacity loss for multilayer codebook precoding in MIMO systems. , 2012, , .		3
60	Long range parametric channel prediction for narrowband MIMO systems with joint parameter estimation. , 2013, , .		3
61	Statistically robust cooperative beamforming for cognitive radio networks. , 2013, , .		3
62	Aligned interference neutralisation for 2×2 interference channel with imperfect channel state information. , 2013, , .		3
63	Asymptotic Error Bounds on Prediction of Narrowband MIMO Wireless Channels. IEEE Signal Processing Letters, 2014, 21, 1103-1107.	3.6	3
64	Two-dimensional subband Steiglitz-McBride algorithm for automatic analysis of two-dimensional nuclear magnetic resonance data. Magnetic Resonance in Chemistry, 2020, 58, 106-115.	1.9	3
65	3D Mobility Models and Analysis for UAVs. , 2020, , .		3
66	Efficient Channel Estimation for RIS. , 2021, , .		3
67	Hybrid Distributed MRC With Imperfect CSI for MU-MIMO Systems. IEEE Communications Letters, 2021, 25, 3109-3113.	4.1	3
68	Deployment issues for massive MIMO systems. , 2015, , .		2
69	Robust cooperative relay beamforming for cognitive radio networks. , 2016, , .		2
70	Cooperative interference cancellation for cellular networks with imperfect CCSI. IET Communications, 2016, 10, 525-533.	2.2	2
71	Limited-Feedback Massive MISO Systems With Trellis-Coded Quantization for Correlated Channels. IEEE Transactions on Vehicular Technology, 2016, 65, 8240-8254.	6.3	2
72	An adaptive parametric prediction method for mobile MIMO wireless systems. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
73	An Evaluation of Channel Models, Frequency Bands and Antenna Topologies for 5G. , 2017, , .		2
74	Favorable Propagation with User Cluster Sharing. , 2020, , .		2
75	Space-Constrained Arrays for Massive MIMO. IEEE Wireless Communications Letters, 2021, 10, 948-952.	5.0	2
76	The Impact of Channel Type on Spectrum Sensing. IEEE Wireless Communications Letters, 2022, 11, 230-234.	5.0	2
77	Analysis of analog and digital MRC in massive MU-MIMO systems over correlated channels. Journal of Communications and Networks, 2021, 23, 454-462.	2.6	2
78	Detector for Alamouti space-time coding in Rayleigh fading MIMO channels with randomly distributed timing drift. , 2005, , .		1
79	Timing Synchronization for Real-Valued Orthogonal Space-Time Block Codes. , 0, , .		1
80	Timing Error Detector Design and Analysis for Quasi-Orthogonal Space-Time Block Coding. , 2007, , .		1
81	On the Number of Independent Channels in a Diversity System. , 2010, , .		1
82	Capacity analysis for closed and open access femto cell networks. , 2012, , .		1
83	MIMO capacity gain analysis for general channel models. , 2012, , .		1
84	Statistically robust cognitive radio beamforming. , 2013, , .		1
85	Exact Blocking Time Statistics for the Erlang Loss Model. IEEE Wireless Communications Letters, 2013, 2, 443-446.	5.0	1
86	Lowâ€œcomplexity symbol timing error detection for quasiâ€œorthogonal spaceâ€œtime block codes. IET Communications, 2013, 7, 206-216.	2.2	1
87	On the Computation of Per-User Rate Distributions From Sum-Rate Distributions. IEEE Wireless Communications Letters, 2014, 3, 381-384.	5.0	1
88	A Proposed Network Balance Index for Heterogeneous Networks. IEEE Wireless Communications Letters, 2016, , 1-1.	5.0	1
89	SNAP â€œ POP for Massive MIMO Systems. , 2020, , .		1
90	Flexible Mobility Models Using Stochastic Differential Equations. IEEE Transactions on Vehicular Technology, 2022, 71, 4312-4321.	6.3	1

#	ARTICLE	IF	CITATIONS
91	Analysis of Timing Error Detectors for Orthogonal Space-Time Block Codes. , 2007, , .		0
92	Arbitrary Constellations with Coded Maximum Ratio Transmission over Downlink Nakagami-m Fading Channels. , 2016, , .		0
93	Correction to "On the Performance of Spatially Correlated Large Antenna Arrays for Millimeter-Wave Frequencies" [Jan 18 132-148]. IEEE Transactions on Antennas and Propagation, 2019, 67, 694-694.	5.1	0