JosÃ© Antonio GarcÃ-a-Naya

List of Publications by Year
in descending order

99 papers	1,016 citations	567281 15 h-index	552781 26 g-index
101 all docs	101 docs citations	101 times ranked	619 citing authors

#	Article	IF	Citations
1	Hybrid Supervised-Unsupervised Channel Estimation Scheme with Dynamic Transmission of Pilots. Neural Processing Letters, 2023, 55, 12647-12661.	3.2	1
2	Fine Time Measurement for the Internet of Things: A Practical Approach Using ESP32. IEEE Internet of Things Journal, 2022, 9, 18305-18318.	8.7	13
3	Dual-Beam Steerable TMAs Combining AM and PM Switched Time-Modulation. Sensors, 2022, 22, 1399.	3.8	1
4	A TMA-FDA Approach for Two-Beam Steering. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1973-1977.	4.0	3
5	Combining Switched TMAs and FDAs to Synthesize Dot-Shaped Beampatterns. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1716-1720.	4.0	7
6	JSCC-Cast: A Joint Source Channel Coding Video Encoding and Transmission System with Limited Digital Metadata. Sensors, 2021, 21, 6208.	3.8	3
7	Reply to â€œComments on â€˜Combining Switched TMAs and FDAs to Synthesize Dot-Shaped Beampatternsâ€â€™ IEEE Antennas and Wireless Propagation Letters, 2021, 20, 2560-2560.	4.0	0
8	Time-modulated array beamforming with periodic stair-step pulses. Signal Processing, 2020, 166, 107247.	3.7	31
9	Bit Error Probability and Capacity Bound of OFDM Systems in Deterministic Doubly-Selective Channels. IEEE Transactions on Vehicular Technology, 2020, 69, 11458-11469.	6.3	4
10	Multibeam Single-Sideband Time-Modulated Arrays. IEEE Access, 2020, 8, 151976-151989.	4.2	13
11	Using the Power Delay Profile to Accelerate the Training of Neural Network-Based Classifiers for the Identification of LOS and NLOS UWB Propagation Conditions. IEEE Access, 2020, 8, 220205-220214.	4.2	11
12	Time-Modulated Arrays With Haar Wavelets. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1862-1866.	4.0	15
13	Time-Modulated Arrays Controlled With Sinusoidal Pulsewidth Modulation. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1857-1861.	4.0	2
14	Experimental evaluation of flexible duplexing in multi-tier MIMO networks. Eurasip Journal on Wireless Communications and Networking, 2020, 2020, .	2.4	1
15	Transmission of Still Images Using Low-Complexity Analog Joint Source-Channel Coding. Sensors, 2019, 19, 2932.	3.8	9
16	60-GHz Millimeter-Wave Propagation Inside Bus: Measurement, Modeling, Simulation, and Performance Analysis. IEEE Access, 2019, 7, 97815-97826.	4.2	10
17	NLOS Identification and Mitigation Using Low-Cost UWB Devices. Sensors, 2019, 19, 3464.	3.8	75
18	Time-Modulated Phased Array Controlled With Nonideal Bipolar Squared Periodic Sequences. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 407-411.	4.0	43

#	Article	IF	Citations
19	Integration of High Speed Train Channel Measurements in System Level Simulations. , 2019, , .		0
20	Beam-Steering in Switched 4D Arrays Based on the Discrete Walsh Transform. , 2019, , .		7
21	Experimental Evaluation of Analog Encoding for the Wireless Transmission of Still Images. , 2019, , .		1
22	Feasibility of LTE for Train Control in Subway Environments Based on Experimental Data. , 2019, , .		1
23	Environmental Cross-Validation of NLOS Machine Learning Classification/Mitigation with Low-Cost UWB Positioning Systems. Sensors, 2019, 19, 5438.	3.8	17
24	Multi-Sensor Accurate Forklift Location and Tracking Simulation in Industrial Indoor Environments. Electronics (Switzerland), 2019, 8, 1152.	3.1	30
25	Analog Beamforming Using Time-Modulated Arrays With Digitally Preprocessed Rectangular Sequences. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 497-500.	4.0	25
26	Time Modulated Array Controlled by Periodic Pulsed Signals. , 2018, , .		2
27	Multiple Beamforming with TMAs controlled by Periodic Nyquist Pulsed Signals. , 2018, , .		1
28	Time-Modulated Multibeam Phased Arrays With Periodic Nyquist Pulses. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 2508-2512.	4.0	31
29	Measurement-Based Characterization of Train-to-Infrastructure 2.6 GHz Propagation Channel in a Modern Subway Station. IEEE Access, 2018, 6, 52814-52830.	4.2	9
30	Image Transmission: Analog or Digital?. Proceedings (mdpi), 2018, 2, .	0.2	0
31	Dual-Signal Transmission Using RF Precoding and Analog Beamforming With TMAs. IEEE Communications Letters, 2018, 22, 1640-1643.	4.1	6
32	Vehicle-to-Infrastructure Channel Characterization Based on LTE Measurements. , 2018, , .		0
33	Experimental evaluation in wireless communications. Eurasip Journal on Wireless Communications and Networking, 2017, 2017, .	2.4	1
34	Propagation modeling for outdoor-to-indoor and indoor-to-indoor wireless links in high-speed train. Measurement: Journal of the International Measurement Confederation, 2017, 110, 43-52.	5.0	14
35	Enhanced Time-Modulated Arrays for Harmonic Beamforming. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 259-270.	10.8	53
36	Performance Analysis of Time-Modulated Arrays for the Angle Diversity Reception of Digital Linear Modulated Signals. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 247-258.	10.8	55

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37	Throughput-based performance evaluation of 5G-candidate waveforms in high speed scenarios. , 2017, , .		1
38	Interference Alignment Testbeds. , 2017, 55, 120-126.		8
39	Frequency-Domain synthesis of time-modulated arrays. , 2017, , .		1
40	Experimental Characterization of LTE Wireless Links in High-Speed Trains. Wireless Communications and Mobile Computing, 2017, 2017, 1-20.	1.2	19
41	Time Modulated Arrays: From their Origin to Their Utilization in Wireless Communication Systems. Sensors, 2017, 17, 590.	3.8	47
42	Performance assessment of 5G-candidate waveforms in high speed scenarios. , 2016, , .		5
43	The GTEC 5G link-level simulator. , 2016, , .		16
44	Methods to Perform High Velocity LTE Experiments at Low Velocities. , 2016, , .		3
45	Experimental assessment of 5G-candidate modulation schemes at extreme speeds. , 2016, , .		4
46	Experimental evaluation of 4G technologies in metro tunnel scenarios. , 2016, , .		6
47	TD-LTE Downlink Performance Assessment in High Speed Scenarios. , 2016, , .		5
48	Time-modulated arrays with Sum of Weighted Cosine pulses. , 2016, , .		3
49	Assessment of channel propagation conditions for FDD LTE transmissions in the spanish high-speed railways. , 2016, , .		2
50	Impact of Time-Modulated Arrays on the BER of Linear Digital Modulations. Journal of Electromagnetic Waves and Applications, 2015, 29, 2147-2154.	1.6	2
51	Experimental evaluation of the WiMAX downlink physical layer in high-mobility scenarios. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	12
52	Emulating extreme velocities of mobile LTE receivers in the downlink. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	17
53	An experimental evaluation of broadband spatial IA for uncoordinated MIMO-OFDM systems. , 2015, , .		4
54	Time-modulated arrays for Digital Communications in multipath scenarios. , 2015, , .		7

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55	LTE Downlink Performance in High Speed Trains. , 2015, , .		15
56	Experimental evaluation of interference alignment for broadband WLAN systems. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	8
57	A Real-Time Implementation of the Mobile WiMAX ARQ and Physical Layer. Journal of Signal Processing Systems, 2015, 78, 283-297.	2.1	1
58	On the Feasibility of Time-Modulated Arrays for Digital Linear Modulations: A Theoretical Analysis. IEEE Transactions on Antennas and Propagation, 2014, 62, 6114-6122.	5.1	41
59	Experimental assessment of WiMAX transmissions under highly time-varying channels. , 2014, , .		4
60	Time-modulated arrays for digital communications. , 2014, , .		2
61	Experimental validation of ICI-Aware OFDM receivers under time-varying conditions. , 2014, , .		11
62	Detection of Channel Variations to Improve Channel Estimation Methods. Circuits, Systems, and Signal Processing, 2014, 33, 2605-2623.	2.0	0
63	Broadband Access in Complex Environments: LTE on Railway. IEICE Transactions on Communications, 2014, E97.B, 1514-1527.	0.7	9
64	Testbedâ€assisted learning for digital communications courses. Computer Applications in Engineering Education, 2013, 21, 539-549.	3.4	8
65	Real-time multimedia coding and transmission. Eurasip Journal on Advances in Signal Processing, 2013, 2013, .	1.7	0
66	Evaluation of H.264/AVC over IEEE 802.11p vehicular networks. Eurasip Journal on Advances in Signal Processing, 2013, 2013, .	1.7	3
67	A low-cost decision-aided channel estimation method for Alamouti OSTBC. Neural Computing and Applications, 2013, 23, 1597-1604.	5.6	0
68	Design and implementation of an OFDMA-TDD physical layer for WiMAX applications. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	2.4	4
69	KLT-based estimation of rapidly time-varying channels in MIMO-OFDM systems. , 2013, , .		4
70	A Testbed for Evaluating LTE in High-Speed Trains. , 2013, , .		8
71	Performance Evaluation over Indoor Channels of an Unsupervised Decision-Aided Method for OSTBC Systems. Lecture Notes in Computer Science, 2013, , 144-151.	1.3	0
72	A decision-aided channel estimation strategy for the IEEE 802.11p standard. , 2012, , .		1

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73	Equalizers in mobile communications: Tutorial 38. IEEE Instrumentation and Measurement Magazine, 2012, 15, 32-42.	1.6	7
74	Performance of MIMO systems in measured indoor channels with transmitter noise. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	2.4	2
75	Experimental validation of Interference Alignment techniques using a multiuser MIMO testbed. , 2011, , .		31
76	A MATLAB Interface for Analyzing Conformal Arrays Composed of Polarized Heterogeneous Elements [EM Programmer's Notebook]. IEEE Antennas and Propagation Magazine, 2011, 53, 136-144.	1.4	6
77	Measuring the physical layer performance of wireless communication systems: Part 33 in a series of tutorials on instrumentation and measurement. IEEE Instrumentation and Measurement Magazine, 2011, 14, 8-17.	1.6	22
78	Hybrid Supervised-Unsupervised Channel Estimation Scheme with Dynamic Transmission of Pilots. Neural Processing Letters, 2011, 33, 1-15.	3.2	2
79	Channel estimation techniques for linear precoded systems: Supervised, unsupervised, and hybrid approaches. Signal Processing, 2011, 91, 1578-1588.	3.7	3
80	A methodology for repeatable, off-line, closed-loop wireless communication system measurements at very high velocities of up to 560 km/h. , 2011, , .		17
81	Experimental Evaluation of Analog Joint Source-Channel Coding in Indoor Environments. , 2011, , .		17
82	Synchronization of wireless radio testbed measurements. , 2011, , .		9
83	A Decision-Aided Strategy for Enhancing Transmissions in Wireless OSTBC-Based Systems. Lecture Notes in Computer Science, 2011, , 500-507.	1.3	1
84	Measuring the influence of TX antenna spacing and transmit power on the closed-loop throughput of IEEE 802.16-2004 WiMAX. , 2010, , .		2
85	On Mutual Information and Capacity in Frequency Selective Wireless Channels. , 2010, , .		9
86	A MATLAB Tool for Visualizing the 3D Polar Power Patterns and Excitations of Conformal Arrays. IEEE Antennas and Propagation Magazine, 2010, 52, 127-133.	1.4	7
87	A Multicore SDR Architecture for Reconfigurable WiMAX Downlink. , 2010, , .		7
88	Hybrid Channel Estimation Strategy for MIMO Systems with Decision Feedback Equalizer. Lecture Notes in Computer Science, 2010, , 311-318.	1.3	0
89	A Novel Hybrid Approach to Improve Performance of Frequency Division Duplex Systems with Linear Precoding. Lecture Notes in Computer Science, 2010, , 248-255.	1.3	2
90	Throughput and capacity of MIMO WiMAX. , 2009, , .		7

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91	Throughput-Based Antenna Selection Measurements. , 2009, , .		7
92	A comparative study of STBC transmissions at 2.4â€‰GHz over indoor channels using a 2â€‰Ã—â€‰2 MIMO testbed. Wireless Communications and Mobile Computing, 2008, 8, 1149-1164.	1.2	13
93	Blind channel identification in Alamouti coded systems: a comparative study of eigendecomposition methods in indoor transmissions at 2.4 GHz. European Transactions on Telecommunications, 2008, 19, 751-759.	1.2	13
94	A comparative study of blind channel identification methods for Alamouti coded systems over indoor transmissions at 2.4 GHz. , 2008, , .		0
95	A blind channel estimation strategy for the 2X1 Alamouti system based on diagonalising 4th-order cumulant matrices. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	2
96	FlexVehd: A flexible testbed for vehicular radio interfaces. , 2008, , .		4
97	A distributed multilayer architecture enabling end-user access to MIMO testbeds. , 2008, , .		4
98	Performance of STBC transmissions with real data. , 2007, , .		4
99	A Flexible Testbed for the Rapid Prototyping of MIMO Baseband Modules. , 2006, , .		3