Arnaldo S R Oliveira

List of Publications by Year
in descending order

100 papers	823 citations	687363 13 h-index	713466 21 g-index
101 all docs	101 docs citations	101 times ranked	698 citing authors

#	Article	IF	Citations
1	On the BEP and Outage Probability Under Cascaded Double Correlated eta-mu Fading Channels. IEEE Transactions on Vehicular Technology, 2022, 71, 1132-1144.	6.3	1
2	Capacity analysis of shadowed Beaulieu-Xie fading channels. , 2022, 122, 103367.		9
3	On the Statistics of the Maximum of Î±-F Variates and Their Applications. IEEE Wireless Communications Letters, 2022, 11, 831-835.	5.0	3
4	On the performance of digital systems in Î±-F fading and non-Gaussian noise channels. , 2022, 123, 103445.		0
5	5G cascaded channel estimation using convolutional neural networks. , 2022, 126, 103483.		7
6	Charging Mobile Devices in Indoor Environments. Energies, 2022, 15, 3450.	3.1	3
7	Detection, Classification and Location of Sources of Partial Discharges Using the Radiometric Method: Trends, Challenges and Open Issues. IEEE Access, 2021, 9, 110787-110810.	4.2	15
8	FPGA Implementation of a 4G/5G Multimode DU Downlink Transmission Chain. , 2021, , .		2
9	All-Digital RFID Readers: An RFID Reader Implemented on an FPGA Chip and/or Embedded Processor. IEEE Microwave Magazine, 2021, 22, 18-24.	0.8	3
10	On the BEP Analysis of M-QAM in a Frequency Non-Selective Beaulieu-Xie Fading Channels. , 2021, , .		1
11	Beaulieu-Xie Phase-Envelope Joint and Bivariate Distributions. IEEE Communications Letters, 2021, 25, 1453-1457.	4.1	6
12	Software-Defined Radio Enabled Cloud Radio Access Network Implementation Using OpenAirInterface. Wireless Personal Communications, 2021, 121, 1233-1253.	2.7	1
13	Over-the-Air Calibration of Active Antenna Arrays Using Multisine. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 431-442.	4.6	6
14	Partial Discharge Location Through Application of Stationary Discrete Wavelet Transform on UHF Signals. IEEE Sensors Journal, 2021, 21, 24644-24652.	4.7	5
15	On the BEP analysis of M-QAM and R-QAM under cascaded double Î·-Î¼, Î²-Î¼ or Î±-Î¼ fading channels. , 2020, 107, 102870.		4
16	Bringing Students and Companies together by means of Project Development. , 2020, , .		2
17	Outage Probability of the Product of Two Beaulieuâ€“Xie, etaâ€“mu, $kappa$â€“mu, or $alpha$â€“mu Random Variables. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 2182-2186.	4.0	8
18	ArchSDN: a reinforcement learning-based autonomous OpenFlow controller with distributed management properties. SN Applied Sciences, 2020, 2, 1.	2.9	1

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19	Cascaded Double Beaulieu-Xie Fading Channels. IEEE Communications Letters, 2020, 24, 2133-2136.	4.1	17
20	When Backscatter Communication Meets Vehicular Networks: Boosting Crosswalk Awareness. IEEE Access, 2020, 8, 34507-34521.	4.2	14
21	Demonstration of a hybrid optical fiberâ€"wireless 5G fronthaul coexisting with end-to-end 4G networks. Journal of Optical Communications and Networking, 2020, 12, 72.	4.8	36
22	MPSoC Fast Prototyping of a Reconfigurable DU Downlink Transmission Chain for 5G New Radio. , 2020, , .		1
23	Design and Analysis of Class B Power Amplifier to be Used in All Digital Transmitters. , 2019, , .		0
24	A Medium Guardian for Enhanced Dependability in Safety-Critical Wireless Systems. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 965-976.	8.0	3
25	A Fully Parallel Architecture for Designing Frequency-Agile and Real-Time Reconfigurable FPGA-Based RF Digital Transmitters. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 1489-1499.	4.6	29
26	Real-Time FPGA-Based Delta-Sigma-Modulation Transmission for 60 GHz Radio-Over-Fiber Fronthaul. , 2018, , .		3
27	Millimeter-Wave Real-Time All-Digital Transmitter with Electro-Optical Upconversion. , 2018, , .		1
28	An FPGA-based Multi-level All-Digital Transmitter with 1.25 GHz of Bandwidth. , 2018, , .		7
29	Towards analog filter-free all-digital transmitters through hybrid estimation and cancellation of ASM's quantization noise. , 2018, , .		0
30	Optimized DPD Feedback Loop for m-MIMO sub-6GHz Systems. , 2018, , .		5
31	A Real-Time Architecture for Agile and FPGA-Based Concurrent Triple-Band All-Digital RF Transmission. IEEE Transactions on Microwave Theory and Techniques, 2018, , 1-12.	4.6	13
32	Agile All-Digital DPD Feedback Loop. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 2476-2484.	4.6	7
33	Agile All-Digital RF Transceiver Implemented in FPGA. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 4229-4240.	4.6	15
34	An architecture for a learning-based autonomic decision system. Journal of Computational Science, 2017, 22, 268-282.	2.9	3
35	All-digital transmitter based on cascaded delta-sigma modulators for relaxing the analog filtering requirements. , 2017, , .		4
36	A flexible physical layer and fronthaul research testbed for C-RAN. Microprocessors and Microsystems, 2017, 52, 480-490.	2.8	1

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37	Towards circulator-free multi antenna transmitters for 5G. , 2017, , .		8
38	Over the air characterization for 5G massive MIMO array transmitters. , 2017, , .		5
39	Improving the performance of all-digital transmitter based on parallel delta-sigma modulators through propagation of state registers. , 2017, , .		13
40	All-digital transmitter based antenna array with reduced hardware Complexity. , 2017, , .		8
41	Fail silence mechanism for dependable vehicular communications. International Journal of High Performance Computing and Networking, 2017, 10, 534.	0.4	1
42	Enforcing Replica Determinism in the Road Side Units of Fault-Tolerant Vehicular Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 3-12.	0.3	1
43	Performance Evaluation of SIMO Techniques in IEEE 802.11p. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 91-100.	0.3	0
44	Agile Single- and Dual-Band All-Digital Transmitter Based on a Precompensated Tunable Deltaâ€"Sigma Modulator. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4720-4730.	4.6	18
45	All-digital transceivers â€" Recent advances and trends. , 2016, , .		3
46	Wideband all-digital transmitter based on multicore DSM. , 2016, , .		19
47	An RSU Replication Scheme for Dependable Wireless Vehicular Networks. , 2016, , .		4
48	A Broadband Almost-Digital RF Transmitter With an Efficient Power Amplifier. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 1526-1534.	4.6	12
49	RF Subsampling Feedback Loop Technique for Concurrent Dual-Band PA Linearization. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4174-4182.	4.6	10
50	Towards an all-digital antenna array transmitter. , 2016, , .		1
51	Tunable delta-sigma modulator for agile all-digital transmitters. , 2016, , .		5
52	Learning-based Autonomic Decision System for bandwidth-aware routing. , 2016, , .		1
53	Perfect Isolation: Dealing with Self-Jamming in Passive RFID Systems. IEEE Microwave Magazine, 2016, 17, 20-39.	0.8	33
54	All-digital flexible uplink remote radio head for C-RAN. , 2016, , .		4

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55	Timing analysis of an active replication scheme for the road side units of vehicular networks. , 2016, , .		1
56	Mitigating adjacent channel interference in vehicular communication systems. Digital Communications and Networks, 2016, 2, 57-64.	5.0	13
57	Fault Tolerant Architecture forÂInfrastructure based Vehicular Networks. Studies in Systems, Decision and Control, 2016, , 169-194.	1.0	5
58	High Spectral Wavelength Agnostic Multicarrier D-RoF Modem Based on Uncooled RSOA. IEEE Photonics Technology Letters, 2016, 28, 1010-1013.	2.5	3
59	Automatic accident detection with multi-modal alert system implementation for ITS. Vehicular Communications, 2016, 3, 1-11.	4.0	52
60	All-Digital Transmitter With a Mixed-Domain Combination Filter. IEEE Transactions on Circuits and Systems II: Express Briefs, 2016, 63, 4-8.	3.0	25
61	Development of an ITS-G5 Station, from the Physical to the MAC Layer. , 2016, , 1-36.		8
62	HDy Copilot: A Mobile Application for Automatic Accident Detection and Multimodal Alert Dissemination. Studies in Systems, Decision and Control, 2016, , 241-270.	1.0	3
63	A Flexible Research Testbed for C-RAN. , 2015, , .		7
64	High spectral efficient and flexible multicarrier D-RoF modem using up to 1024-QAM modulation format. , 2015, , .		2
65	Relaxing all-digital transmitter filtering requirements through improved PWM waveforms. , 2015, , .		4
66	Improving DPD performance by compensating feedback loop impairments in RF ADCs. , 2015, , .		4
67	Implementation and Evaluation of a Low Latency and Resource Efficient Compression Method for Digital Radio Transport of OFDM Signals. , 2015, , .		4
68	High performance microwave point-to-point link for 5G backhaul with flexible spectrum aggregation. , 2015, , .		5
69	FPGA-based all-digital transmitters. , 2015, , .		1
70	Supporting Deterministic Medium Access Control in Wireless Vehicular Communications. , 2015, , .		2
71	Reliable Delivery of Safety Messages in Infrastructure Based Vehicular Networks. , 2015, , .		1
72	Wireless Sensor Tag and Network for Improved Clinical Triage. , 2015, , .		7

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73	Mobile Application for Automatic Accident Detection and Multimodal Alert. , 2015, , .		24
74	An Agile and Wideband All-Digital SDR Receiver for 5G Wireless Communications. , 2015, , .		13
75	Mobile fronthaul RoF transceivers for C-RAN applications. , 2015, , .		10
76	FPGA-based all-digital software defined radio system demonstration. , 2015, , .		3
77	FPGA-based all-digital Software Defined Radio receiver. , 2015, , .		3
78	Poster: Implementing deterministic vehicular communications: Rationale and challenges. , 2014, , .		0
79	All-digital transmitter with RoF remote radio head. , 2014, , .		7
80	Analysis on inâ€band distortion caused by switching amplifiers. IET Microwaves, Antennas and Propagation, 2014, 8, 351-357.	1.4	5
81	Gigasample Time-Interleaved Delta-Sigma Modulator for FPGA-Based All-Digital Transmitters. , 2014, , .		21
82	An Agile Digital Radio System for UHF White Spaces. IEEE Microwave Magazine, 2014, 15, 92-97.	0.8	7
83	Novel fine tunable multichannel all-digital transmitter. , 2013, , .		6
84	Design and Optimization of Flexible and Coding Efficient All-Digital RF Transmitters. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 625-632.	4.6	42
85	Designing Harmonic-Controlled Drivers for Switching Power Amplifiers. IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 247-251.	3.0	2
86	A hardware-software platform for digital pre-distortion development and validation. , 2013, , .		0
87	Evaluation of pulse modulators for all-digital agile transmitters. , 2012, , .		11
88	Evaluation of an FPGA-based Reconfigurable SoC for All-Digital Flexible RF Transmitters. , 2012, , .		5
89	A Novel All-Digital Multichannel Multimode RF Transmitter Using Delta-Sigma Modulation. IEEE Microwave and Wireless Components Letters, 2012, 22, 156-158.	3.2	23
90	A dynamically reconfigurable architecture enabling all-digital transmission for cognitive radios. , 2012, , .		6

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91	Seamless horizontal and vertical mobility in VANET. , 2012, , .		14
92	Printed antenna for DSRC systems with omnidirectional circular polarization. , 2012, , .		9
93	Design and Simulation of a Rectangular Meshotron Unit Prototype. , 2011, , .		0
94	An IEEE 802.11p/WAVE implementation with synchronous channel switching for seamless dual-channel access (poster). , 2011, , .		20
95	The ARPA-MT Embedded SMT Processor and Its RTOS Hardware Accelerator. IEEE Transactions on Industrial Electronics, 2011, 58, 890-904.	7.9	38
96	Microstrip antenna array for multiband dedicated short range communication systems. Microwave and Optical Technology Letters, 2011, 53, 2794-2796.	1.4	11
97	Designing a costumized Ethernet switch for safe hard real-time communication. , 2008, , .		11
98	The OReK real-time micro kernel for FPGA-based systems-on-chip. , 2008, , .		3
99	An Object-Oriented framework for CAN protocol modeling and simulation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 239-244.	0.4	0
100	White spaces exploration using FPGA-based all-digital transmitters. , 0, , 199-230.		0