

Tomas Gotthans

List of Publications by Year in descending order

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45
papers

476
citations

1162367

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996533

15
g-index

45
all docs

45
docs citations

45
times ranked

371
citing authors

#	ARTICLE	IF	CITATIONS
1	Commercial UAV Jamming Possibilities. , 2022, , .		0
2	Micro-Doppler Effect and Determination of Rotor Blades by Deep Neural Networks. , 2022, , .		1
3	Digitally-Compensated Wideband 60 GHz Test-Bed for Power Amplifier Predistortion Experiments. Sensors, 2021, 21, 1473.	2.1	1
4	Adjacent Channel Interference Cancellation in FDM Transmissions. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 5417-5428.	3.5	2
5	Fracmemristor chaotic oscillator with multistable and antimonotonicity properties. Journal of Advanced Research, 2020, 25, 137-145.	4.4	10
6	On Feedback Sample Selection Methods Allowing Lightweight Digital Predistorter Adaptation. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 1976-1988.	3.5	21
7	Optimizing Bias Point of High Efficiency Class-B GaN Power Amplifier for the Best Efficiency. , 2019, , .		0
8	Digital Calibration of 60 GHz Setup for Use in Power Amplifier Predistortion. , 2019, , .		3
9	Temperature Compensation-Based Behavioral Modeling for Digital Predistortion of RF Power Amplifiers. , 2019, , .		2
10	On the lower I/Q imbalance sensitivity using real-valued feedback of digital predistortion. , 2018, , .		3
11	Current-Mode Network Structures Dedicated for Simulation of Dynamical Systems with Plane Continuum of Equilibrium. Journal of Circuits, Systems and Computers, 2018, 27, 1830004.	1.0	30
12	60 GHz Setup for RF Components Impairments Compensation. , 2018, , .		2
13	Digital predistorter with Hammerstein structure employing statistical adaptation of nonlinear component. , 2018, , .		1
14	On the sensitivity of digital predistortion to impairments of time-interleaved A/D converters. , 2018, , .		0
15	A Three-Dimensional Chaotic System with Square Equilibrium and No-Equilibrium. Studies in Computational Intelligence, 2017, , 613-635.	0.7	4
16	Reduced-feedback MIMO digital predistortion of power amplifiers for 5G systems. , 2017, , .		1
17	Analytical method of fractional sample period synchronisation for digital predistortion systems. , 2017, , .		8
18	Wireless device classification through transmitter imperfections " Evaluation of performance degradation due to the chip heating. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
19	Wideband digital predistortion with sub-Nyquist nonuniform sampling and reconstruction of feedback path. , 2017, , .		1
20	A chaotic system with rounded square equilibrium and with no-equilibrium. Optik, 2017, 130, 365-371.	1.4	35
21	On mutual information of measured 60 GHz wideband indoor MIMO channels: Time domain singular values. , 2017, , .		2
22	Influence of transceiver imperfections to digital pre-distortion linearization " Application to 5G waveforms. , 2017, , .		0
23	New Chaotic Dynamical System with a Conic-Shaped Equilibrium Located on the Plane Structure. Applied Sciences (Switzerland), 2017, 7, 976.	1.3	19
24	Comparison of hill-climbing and genetic algorithms for digital predistortion models sizing. , 2016, , .		7
25	FBMC filter bank optimization for non-linear power amplifiers. , 2016, , .		0
26	Simple Chaotic Flow with Circle and Square Equilibrium. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650137.	0.7	97
27	Influence of Filter-Bank RF transceiver chain imperfections on digital predistortion performance. , 2016, , .		2
28	Nanoelectronic COupled problems solutions - nanoCOPS: modelling, multirate, model order reduction, uncertainty quantification, fast fault simulation. Journal of Mathematics in Industry, 2016, 7, .	0.7	8
29	Electrothermal Simulation of Bonding Wire Degradation under Uncertain Geometries. , 2016, , .		6
30	Design of Passive Analog Electronic Circuits Using Hybrid Modified UMDA algorithm. Radioengineering, 2015, 24, 161-170.	0.3	1
31	New class of chaotic systems with circular equilibrium. Nonlinear Dynamics, 2015, 81, 1143-1149.	2.7	133
32	Experimental evaluation of digital predistortion with FBMC and OFDM signals. , 2015, , .		14
33	Experimental verification and comparison of polynomials and LUTs predistortion techniques. , 2015, , .		4
34	Dynamical Tangles in Third-Order Oscillator with Single Jump Function. Scientific World Journal, The, 2014, 2014, 1-12.	0.8	1
35	Digital predistortion with advance/delay neural network and comparison with Volterra derived models. , 2014, , .		13
36	Analysis and Synthesis of Chaotic Circuits using Memristor Properties. Journal of Electrical Engineering, 2014, 65, 129-136.	0.4	4

#	ARTICLE	IF	CITATIONS
37	Comparison of modeling techniques for power amplifiers. , 2013, , .		9
38	Controlled Gain Current and Differential Voltage Amplifier and study of its application in simple adjustable oscillator. , 2013, , .		1
39	Optimal order estimation for modeling and predistortion of power amplifiers. , 2013, , .		11
40	Effect and adaptive correction of impedance mismatch between antenna and power amplifier on digital predistortion. , 2013, , .		4
41	Multi Grid Chaotic Attractors with Discrete Jumps. Journal of Electrical Engineering, 2013, 64, 118-122.	0.4	7
42	Advanced parallel processing of Lyapunov exponents verified by practical circuit. , 2011, , .		2
43	Analog implementation of gotthans-petrzela oscillator with virtual equilibria. , 2011, , .		1
44	Circuit realization of the inertia neuron. , 2011, , .		2
45	Novel circuit implementation of the Nóse-Hoover thermostated dynamic system. , 2011, , .		2