

Sergio Rapuano

List of Publications by Year in descending order

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68
papers

816
citations

687363

13
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610901

24
g-index

68
all docs

68
docs citations

68
times ranked

621
citing authors

#	ARTICLE	IF	CITATIONS
1	The Jitter Measurement Ways: The Instrumentation. IEEE Instrumentation and Measurement Magazine, 2022, 25, 76-82.	1.6	1
2	Special Issue for I ² MTC 2020. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-3.	4.7	0
3	A Dictionary Optimization Method for Reconstruction of ECG Signals after Compressed Sensing. Sensors, 2021, 21, 5282.	3.8	7
4	A new built-in loopback test method for Digital-to-Analog Converter frequency response characterization. Measurement: Journal of the International Measurement Confederation, 2021, 182, 109712.	5.0	2
5	A Compressive Sampling-Based Channel Estimation Method for Network Visibility Instrumentation. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2335-2344.	4.7	6
6	RF emitters localization from compressed measurements exploiting MMV-OMP algorithm. , 2020, , .		1
7	A Novel CS-based Measurement Method for Impairments Identification in Wireline Channels. , 2020, , .		1
8	A Bandpass Sampling Scheme Based on Asynchronous Time Interleaving. , 2020, , .		1
9	A New Method for Dictionary Matrix Optimization in ECG Compressed Sensing. , 2020, , .		8
10	A TDoA-based Measurement Method for RF Emitters Localization by Exploiting Wideband Compressive Sampling. , 2020, , .		4
11	A Wi-Fi IoT prototype for ECG monitoring exploiting a novel Compressed Sensing method. Acta IMEKO (2012), 2020, 9, 38.	0.7	6
12	The jitter measurement ways: The jitter decomposition. IEEE Instrumentation and Measurement Magazine, 2020, 23, 3-12.	1.6	2
13	The jitter measurement ways: The jitter graphs. IEEE Instrumentation and Measurement Magazine, 2019, 22, 50-57.	1.6	2
14	Oscillometric blood pressure waveform analysis: challenges and developments. , 2019, , .		1
15	Wireline channel estimation by compressive sampling for physical layer testing. , 2019, , .		3
16	Non-Uniform Wavelet Bandpass Sampling Analog-to-Information Converter: A hardware implementation and its experimental assessment. Measurement: Journal of the International Measurement Confederation, 2019, 134, 739-749.	5.0	22
17	Research challenges in Measurement for Internet of Things systems. Acta IMEKO (2012), 2019, 7, 82.	0.7	32
18	Special Issue on the 2017 IEEE International Instrumentation and Measurement Technology Conference. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 982-983.	4.7	0

#	ARTICLE	IF	CITATIONS
19	A Cyclostationarity-Based Method for Jitter Measurement in Waveform Recorders. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1786-1794.	4.7	9
20	Compressed Sensing Technologies and Challenges for Aerospace and Defense RF Source Localization. , 2018, , .		15
21	Assessment of analog-to-information converters based on non-uniform sampling for spectrum analysis. , 2018, , .		10
22	Haptics Enhanced Interface for Remote Control of Measurement Instrumentation. , 2018, , .		2
23	Analog-to-information converters in the wideband rf measurement for aerospace applications: current situation and perspectives. IEEE Instrumentation and Measurement Magazine, 2017, 20, 20-28.	1.6	24
24	Method for compensating the effect of disturbances on magnetometer measurements: experimental results. , 2017, , .		5
25	Experimental characterization of a RF mixer for wideband data acquisition systems. , 2017, , .		6
26	DronesBench: an innovative bench to test drones. IEEE Instrumentation and Measurement Magazine, 2017, 20, 8-15.	1.6	18
27	Effects of PRBS jitter on random demodulation analog-to-information converters. , 2016, , .		9
28	Power consumption analysis of a Wireless Sensor Network for road safety. , 2016, , .		11
29	A method for real-time compensation of magnetometers embedded on smartphones. , 2016, , .		5
30	Analog-to-Information Converters: research trends and open problems. , 2016, , .		11
31	An extension to IEEE Std. 1241 sine fit for analog-to-information converters testing. , 2015, , .		6
32	Compensating magnetic disturbances on MARG units by means of a low complexity data fusion algorithm. , 2015, , .		6
33	Investigating the on-board data processing for IMU-based sensors in motion tracking for rehabilitation. , 2015, , .		2
34	Metrology for drone and drone for metrology: Measurement systems on small civilian drones. , 2015, , .		37
35	Frequency-domain characterization of random demodulation Analog-to-Information Converters. Acta IMEKO (2012), 2015, 4, 111.	0.7	14
36	Challenges for aerospace measurement systems: Acquisition of wideband radio frequency using Analog-to-Information converters. , 2014, , .		16

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37	Classification of future aeronautical communication signals. , 2014, , .		4
38	Measurements and sensors for motion tracking in motor rehabilitation. IEEE Instrumentation and Measurement Magazine, 2014, 17, 30-38.	1.6	35
39	Wireless active guardrail for traffic safety: Preliminary tests of speed and proximity measurement. , 2013, , .		5
40	A Histogram-Based Segmentation Method for Wideband Spectrum Sensing in Cognitive Radios. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1900-1908.	4.7	31
41	Wireless Sensor Network for traffic safety. , 2012, , .		13
42	Subspace-based joint multiband detection for wideband spectrum sensing. , 2012, , .		2
43	Estimating the Uncertainty in the Frequency Domain Characterization of Digitizing Waveform Recorders. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1613-1624.	4.7	8
44	Special Section on the 2011 IEEE International Symposium on Medical Measurements and Applications. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1814-1815.	4.7	0
45	Spectrum segmentation for wideband sensing of radio signals. , 2011, , .		9
46	A GNU radio-based signal detector for cognitive radio systems. , 2011, , .		8
47	Prototype of an Automatic Digital Modulation Classifier Embedded in a Real-Time Spectrum Analyzer. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 2639-2651.	4.7	22
48	Instruments and Methods for Calibration of Oscillometric Blood Pressure Measurement Devices. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 2391-2404.	4.7	39
49	Eigenvalue-based signal detector for an automatic modulation classifier. , 2010, , .		12
50	ADC standard harmonization: Comparison of test methods - Phase II. , 2009, , .		2
51	Model-Based Compensation of SAR Nonlinearity. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 541-550.	4.7	3
52	Experimental Comparison of Different Standards for Dynamic Characterization of ADCs. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 1307-1315.	4.7	12
53	An Improved ADC-Error-Correction Scheme Based on a Bayesian Approach. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 128-133.	4.7	6
54	Preliminary Considerations on ADC Standard Harmonization. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 386-394.	4.7	13

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55	One-Way Delay Measurement: State of the Art. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 2742-2750.	4.7	86
56	Real Time Spectrum Analyzer Including an Automatic Digital Modulation Classifier. , 2008, , .		3
57	An Instrument for the Detection of VoIP Network Impairments Embedded in a VoIP Gateway. , 2008, , .		0
58	An Improved Method for the Automatic Digital Modulation Classification. , 2008, , .		12
59	Accurate Speed Measurement Methodologies for Formula One Cars. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , .	0.0	6
60	Bayesian Calibration of a Lookup Table for ADC Error Correction. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 873-878.	4.7	12
61	Remote Didactic Laboratory "G. Savastano," The Italian Experience for E-Learning at the Technical Universities in the Field of Electrical and Electronic Measurement: Architecture and Optimization of the Communication Performance Based on Thin Client Technology. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 1124-1134.	4.7	28
62	Remote Didactic Laboratory "G. Savastano," The Italian Experience for E-Learning at the Technical Universities in the Field of Electrical and Electronic Measurements: Overview on Didactic Experiments. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 1135-1147.	4.7	32
63	Remote Control and Video Capturing of Electronic Instrumentation for Distance Learning. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 1419-1428.	4.7	11
64	An Automatic Digital Modulation Classifier for Measurement on Telecommunication Networks. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 1711-1720.	4.7	82
65	Figures of Merit for Analog-to-Digital Converters: Analytic Comparison of International Standards. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	1
66	One-Way Delay Measurement: State of Art. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	4
67	A Novel Approach to Multilanguage Remote Teaching: Magnetic Measurement Experiment. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	2
68	Characterization of digitizer timebase jitter by means of the Allan variance. Computer Standards and Interfaces, 2003, 25, 15-22.	5.4	8