

# Sergio Rapuano

## List of Publications by Year in descending order

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68  
papers

816  
citations

687363

13  
h-index

610901

24  
g-index

68  
all docs

68  
docs citations

68  
times ranked

621  
citing authors

#	ARTICLE	IF	CITATIONS
1	One-Way Delay Measurement: State of the Art. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 2742-2750.	4.7	86
2	An Automatic Digital Modulation Classifier for Measurement on Telecommunication Networks. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 1711-1720.	4.7	82
3	Instruments and Methods for Calibration of Oscillometric Blood Pressure Measurement Devices. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 2391-2404.	4.7	39
4	Metrology for drone and drone for metrology: Measurement systems on small civilian drones. , 2015, , .		37
5	Measurements and sensors for motion tracking in motor rehabilitation. IEEE Instrumentation and Measurement Magazine, 2014, 17, 30-38.	1.6	35
6	Remote Didactic Laboratory â€œG. Savastano,â€•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
7	Research challenges in Measurement for Internet of Things systems. Acta IMEKO (2012), 2019, 7, 82.	0.7	32
8	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
9	Remote Didactic Laboratory â€œG. Savastano,â€•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
10	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
11	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
12	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
13	DronesBench: an innovative bench to test drones. IEEE Instrumentation and Measurement Magazine, 2017, 20, 8-15.	1.6	18
14	Challenges for aerospace measurement systems: Acquisition of wideband radio frequency using Analog-to-Information converters. , 2014, , .		16
15	Compressed Sensing Technologies and Challenges for Aerospace and Defense RF Source Localization. , 2018, , .		15
16	Frequency-domain characterization of random demodulation Analog-to-Information Converters. Acta IMEKO (2012), 2015, 4, 111.	0.7	14
17	Preliminary Considerations on ADC Standard Harmonization. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 386-394.	4.7	13
18	Wireless Sensor Network for traffic safety. , 2012, , .		13

#	ARTICLE	IF	CITATIONS
19	Bayesian Calibration of a Lookup Table for ADC Error Correction. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 873-878.	4.7	12
20	An Improved Method for the Automatic Digital Modulation Classification. , 2008, , .		12
21	Experimental Comparison of Different Standards for Dynamic Characterization of ADCs. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 1307-1315.	4.7	12
22	Eigenvalue-based signal detector for an automatic modulation classifier. , 2010, , .		12
23	Remote Control and Video Capturing of Electronic Instrumentation for Distance Learning. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 1419-1428.	4.7	11
24	Power consumption analysis of a Wireless Sensor Network for road safety. , 2016, , .		11
25	Analog-to-Information Converters: research trends and open problems. , 2016, , .		11
26	Assessment of analog-to-information converters based on non-uniform sampling for spectrum analysis. , 2018, , .		10
27	Spectrum segmentation for wideband sensing of radio signals. , 2011, , .		9
28	Effects of PRBS jitter on random demodulation analog-to-information converters. , 2016, , .		9
29	A Cyclostationarity-Based Method for Jitter Measurement in Waveform Recorders. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1786-1794.	4.7	9
30	Characterization of digitizer timebase jitter by means of the Allan variance. Computer Standards and Interfaces, 2003, 25, 15-22.	5.4	8
31	A GNU radio-based signal detector for cognitive radio systems. , 2011, , .		8
32	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
33	A New Method for Dictionary Matrix Optimization in ECG Compressed Sensing. , 2020, , .		8
34	A Dictionary Optimization Method for Reconstruction of ECG Signals after Compressed Sensing. Sensors, 2021, 21, 5282.	3.8	7
35	Accurate Speed Measurement Methodologies for Formula One Cars. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , .	0.0	6
36	An Improved ADC-Error-Correction Scheme Based on a Bayesian Approach. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 128-133.	4.7	6

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37	An extension to IEEE Std. 1241 sine fit for analog-to-information converters testing. , 2015, , .		6
38	Compensating magnetic disturbances on MARG units by means of a low complexity data fusion algorithm. , 2015, , .		6
39	Experimental characterization of a RF mixer for wideband data acquisition systems. , 2017, , .		6
40	A Compressive Sampling-Based Channel Estimation Method for Network Visibility Instrumentation. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2335-2344.	4.7	6
41	A Wi-Fi IoT prototype for ECG monitoring exploiting a novel Compressed Sensing method. Acta IMEKO (2012), 2020, 9, 38.	0.7	6
42	Wireless active guardrail for traffic safety: Preliminary tests of speed and proximity measurement. , 2013, , .		5
43	A method for real-time compensation of magnetometers embedded on smartphones. , 2016, , .		5
44	Method for compensating the effect of disturbances on magnetometer measurements: experimental results. , 2017, , .		5
45	One-Way Delay Measurement: State of Art. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	4
46	Classification of future aeronautical communication signals. , 2014, , .		4
47	A TDoA-based Measurement Method for RF Emitters Localization by Exploiting Wideband Compressive Sampling. , 2020, , .		4
48	Real Time Spectrum Analyzer Including an Automatic Digital Modulation Classifier. , 2008, , .		3
49	Model-Based Compensation of SAR Nonlinearity. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 541-550.	4.7	3
50	Wireline channel estimation by compressive sampling for physical layer testing. , 2019, , .		3
51	A Novel Approach to Multilanguage Remote Teaching: Magnetic Measurement Experiment. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	2
52	ADC standard harmonization: Comparison of test methods - Phase II. , 2009, , .		2
53	Subspace-based joint multiband detection for wideband spectrum sensing. , 2012, , .		2
54	Investigating the on-board data processing for IMU-based sensors in motion tracking for rehabilitation. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
55	Haptics Enhanced Interface for Remote Control of Measurement Instrumentation. , 2018, , .		2
56	The jitter measurement ways: The jitter graphs. IEEE Instrumentation and Measurement Magazine, 2019, 22, 50-57.	1.6	2
57	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
58	The jitter measurement ways: The jitter decomposition. IEEE Instrumentation and Measurement Magazine, 2020, 23, 3-12.	1.6	2
59	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
60	Oscillometric blood pressure waveform analysis: challenges and developments. , 2019, , .		1
61	RF emitters localization from compressed measurements exploiting MMV-OMP algorithm. , 2020, , .		1
62	A Novel CS-based Measurement Method for Impairments Identification in Wireline Channels. , 2020, , .		1
63	A Bandpass Sampling Scheme Based on Asynchronous Time Interleaving. , 2020, , .		1
64	The Jitter Measurement Ways: The Instrumentation. IEEE Instrumentation and Measurement Magazine, 2022, 25, 76-82.	1.6	1
65	An Instrument for the Detection of VoIP Network Impairments Embedded in a VoIP Gateway. , 2008, , .		0
66	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
67	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
68	Special Issue for I <sup>2</sup> MTC 2020. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-3.	4.7	0