David Ramirez

List of Publications by Year
in descending order

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69	1,049	623734	477307
papers	citations	14	29
		h-index	g-index

70	70	70	846
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Online Detection and SNR Estimation in Cooperative Spectrum Sensing. IEEE Transactions on Wireless Communications, 2022, 21, 2521-2533.	9.2	6
2	Change-point detection in hierarchical circadian models. Pattern Recognition, 2021, 113, 107820.	8.1	6
3	Sparse Subspace Averaging for Order Estimation. , 2021, , .		0
4	Graph-signal Reconstruction and Blind Deconvolution for Structured Inputs. Signal Processing, 2021, 188, 108180.	3.7	4
5	Assessment of Variability in Irregularly Sampled Time Series: Applications to Mental Healthcare. Mathematics, 2021, 9, 71.	2.2	1
6	Multi-Channel Factor Analysis With Common and Unique Factors. IEEE Transactions on Signal Processing, 2020, 68, 113-126.	5.3	3
7	A General Test for the Linear Structure of Covariance Matrices of Gaussian Populations. , 2020, , .		0
8	Modeling Phone Call Durations via Switching Poisson Processes with Applications in Mental Health. , 2020, , .		0
9	Two-Channel Passive Detection of Cyclostationary Signals. IEEE Transactions on Signal Processing, 2020, 68, 2340-2355.	5.3	8
10	Scale-Invariant Subspace Detectors Based on First- and Second-Order Statistical Models. IEEE Transactions on Signal Processing, 2020, 68, 6432-6443.	5.3	3
11	Source Enumeration in the Presence of Colored Noise. IEEE Signal Processing Letters, 2019, 26, 475-479.	3.6	5
12	Assessment of e-Social Activity in Psychiatric Patients. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 2247-2256.	6.3	8
13	Subspace Averaging and Order Determination for Source Enumeration. IEEE Transactions on Signal Processing, 2019, 67, 3028-3041.	5.3	14
14	Two-Channel Passive Detection Exploiting Cyclostationarity. , 2019, , .		2
15	Two-channel passive detection of cyclostationary signals in noise with spatio-temporal structure. , 2019, , .		0
16	Subspace Averaging for Source Enumeration in Large Arrays. , 2018, , .		4
17	An alternating optimization algorithm for two-channel factor analysis with common and uncommon factors. , 2018, , .		1
18	Testing Equality of Multiple Power Spectral Density Matrices. IEEE Transactions on Signal Processing, 2018, 66, 6268-6280.	5.3	5

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19	Demixing and Blind Deconvolution of Graph-Diffused Sparse Signals. , 2018, , .		11
20	MODEL-ORDER SELECTION IN STATISTICAL SHAPE MODELS. , 2018, , .		3
21	Joint Detection of Almost-Cyclostationary Signals and Estimation of Their Cycle Period. IEEE Signal Processing Letters, 2018, 25, 1695-1699.	3.6	10
22	Locally Optimal Invariant Detector for Testing Equality of Two Power Spectral Densities. , 2018, , .		1
23	LMPIT-Inspired Tests for Detecting a Cyclostationary Signal in Noise With Spatioâ€“Temporal Structure. IEEE Transactions on Wireless Communications, 2018, 17, 6321-6334.	9.2	17
24	Combining Continuous Smartphone Native Sensors Data Capture and Unsupervised Data Mining Techniques for Behavioral Changes Detection: A Case Series of the Evidence-Based Behavior (eB2) Study. JMIR MHealth and UHealth, 2018, 6, e197.	3.7	42
25	Graph-signal reconstruction and blind deconvolution for diffused sparse inputs. , 2017, , .		11
26	Detection of almost-cyclostationarity: An approach based on a multiple hypothesis test. , 2017, , .		1
27	Bootstrap-based detection of the number of signals correlated across multiple data sets. , 2016, , .		3
28	Canonical correlation analysis of high-dimensional data with very small sample support. Signal Processing, 2016, 128, 449-458.	3.7	57
29	Detecting the dimension of the subspace correlated across multiple data sets in the sample poor regime. , 2016, , .		6
30	Determining the number of signals correlated across multiple data sets for small sample support. , 2016, , .		4
31	Detection of cyclostationarity in the presence of temporal or spatial structure with applications to cognitive radio. , 2016, , .		7
32	An asymptotic LMPI test for cyclostationarity detection with application to cognitive radio. , 2015, , .		1
33	Detection of Multivariate Cyclostationarity. IEEE Transactions on Signal Processing, 2015, 63, 5395-5408.	5.3	32
34	A regularized maximum likelihood estimator for the period of a cyclostationary process. , 2014, , .		7
35	Multi-antenna spectrum sensing by exploiting spatio-temporal correlation. Eurasip Journal on Advances in Signal Processing, 2014, 2014, .	1.7	6
36	Finding brain oscillations with power dependencies in neuroimaging data. NeuroImage, 2014, 96, 334-348.	4.2	40

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37	A Bayesian approach for adaptive multiantenna sensing in cognitive radio networks. Signal Processing, 2014, 96, 228-240.	3.7	17
38	Optimizing spatial filters for the extraction of envelope-coupled neural oscillations. , 2014, , .		0
39	An asymptotic GLRT for the detection of cyclostationary signals. , 2014, , .		13
40	Detecting Directionality in Random Fields Using the Monogenic Signal. IEEE Transactions on Information Theory, 2014, 60, 6491-6510.	2.4	15
41	Testing blind separability of complex Gaussian mixtures. Signal Processing, 2014, 95, 49-57.	3.7	2
42	Locally Most Powerful Invariant Tests for Correlation and Sphericity of Gaussian Vectors. IEEE Transactions on Information Theory, 2013, 59, 2128-2141.	2.4	61
43	Power-CCA: Maximizing the correlation coefficient between the power of projections. , 2013, , .		1
44	The locally most powerful invariant test for detecting a rank-P Gaussian signal in white noise. , 2012, , .		10
45	The locally most powerful test for multiantenna spectrum sensing with uncalibrated receivers. , 2012, , .		17
46	GLRT for testing separability of a complex-valued mixture based on the Strong Uncorrelating Transform. , 2012, , .		1
47	Bayesian multiantenna sensing for cognitive radio. , 2012, , .		2
48	The random monogenic signal. , 2012, , .		1
49	Variability of moisture in coarse woody debris from several ecologically important tree species of the Temperate Zone of Europe. Ecohydrology, 2012, 5, 424-434.	2.4	33
50	Experimental validation of Interference Alignment techniques using a multiuser MIMO testbed. , 2011, , .		31
51	Multi-sensor beamsteering based on the asymptotic likelihood for colored signals. , 2011, , .		0
52	Spatial rank estimation in cognitive radio networks with uncalibrated multiple antennas. , 2011, , .		9
53	Frequency-Domain Methodology for Measuring MIMO Channels Using a Generic Test Bed. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 827-838.	4.7	18
54	Detection of Rank-P Signals in Cognitive Radio Networks With Uncalibrated Multiple Antennas. IEEE Transactions on Signal Processing, 2011, 59, 3764-3774.	5.3	143

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55	Multiple-channel detection of a Gaussian time series over frequency-flat channels. , 2011, , .		1
56	Multiantenna detection under noise uncertainty and primary user's spatial structure. , 2011, , .		6
57	Properness and Widely Linear Processing of Quaternion Random Vectors. IEEE Transactions on Information Theory, 2010, 56, 3502-3515.	2.4	160
58	Detection of Spatially Correlated Gaussian Time Series. IEEE Transactions on Signal Processing, 2010, 58, 5006-5015.	5.3	99
59	Widely and semi-widely linear processing of quaternion vectors. , 2010, , .		6
60	Multiantenna spectrum sensing: Detection of spatial correlation among time-series with unknown spectra. , 2010, , .		10
61	Improperness measures for quaternion random vectors. , 2010, , .		0
62	Multiantenna spectrum sensing: The case of wideband rank-one primary signals. , 2010, , .		8
63	Coherent fusion of information for optimal detection in sensor networks. , 2009, , .		1
64	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
65	A generalization of the magnitude squared coherence spectrum for more than two signals: definition, properties and estimation. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	27
66	Performance of STBC transmissions with real data. , 2007, , .		4
67	Regularised approach to detection of constant modulus signals in MIMO channels. Electronics Letters, 2006, 42, 184.	1.0	0
68	A Flexible Testbed for the Rapid Prototyping of MIMO Baseband Modules. , 2006, , .		3
69	Blind Decoding of MISO-OSTBC Systems Based on Principal Component Analysis. , 0, , .		7