Ery Arias-Castro

List of Publications by Year
in descending order

37 papers	1,401 citations	471371 17 h-index	414303 32 g-index
37 all docs	37 docs citations	37 times ranked	1551 citing authors

#	Article	IF	Citations
1	High-frequency irradiance fluctuations and geographic smoothing. Solar Energy, 2012, 86, 2190-2199.	2.9	189
2	Does median filtering truly preserve edges better than linear filtering?. Annals of Statistics, 2009, 37, .	1.4	179
3	Noise Folding in Compressed Sensing. IEEE Signal Processing Letters, 2011, 18, 478-481.	2.1	146
4	Global testing under sparse alternatives: ANOVA, multiple comparisons and the higher criticism. Annals of Statistics, 2011, 39, .	1.4	117
5	On the Fundamental Limits of Adaptive Sensing. IEEE Transactions on Information Theory, 2013, 59, 472-481.	1.5	113
6	Detection of an anomalous cluster in a network. Annals of Statistics, 2011, 39, .	1.4	97
7	Discrete False-Discovery Rate Improves Identification of Differentially Abundant Microbes. MSystems, 2017, 2, .	1.7	73
8	A Poisson model for anisotropic solar ramp rate correlations. Solar Energy, 2014, 101, 192-202.	2.9	62
9	Community detection in dense random networks. Annals of Statistics, 2014, 42, .	1.4	61
10	Searching for a trail of evidence in a maze. Annals of Statistics, 2008, 36, .	1.4	58
11	Spectral clustering based on local linear approximations. Electronic Journal of Statistics, 2011, 5, .	0.4	46
12	Adaptive multiscale detection of filamentary structures in a background of uniform random points. Annals of Statistics, 2006, 34, 326.	1.4	35
13	Distribution-free multiple testing. Electronic Journal of Statistics, 2017, 11, .	0.4	31
14	Distribution-Free Detection of Structured Anomalies: Permutation and Rank-Based Scans. Journal of the American Statistical Association, 2018, 113, 789-801.	1.8	27
15	Cluster detection in networks using percolation. Bernoulli, 2013, 19, .	0.7	20
16	Distribution-free tests for sparse heterogeneous mixtures. Test, 2017, 26, 71-94.	0.7	20
17	Oracle Inequalities and Minimax Rates for Nonlocal Means and Related Adaptive Kernel-Based Methods. SIAM Journal on Imaging Sciences, 2012, 5, 944-992.	1.3	18
18	Clustering Based on Pairwise Distances When the Data is of Mixed Dimensions. IEEE Transactions on Information Theory, 2011, 57, 1692-1706.	1.5	17

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19	Connect the dots: how many random points can a regular curve pass through?. Advances in Applied Probability, 2005, 37, 571-603.	0.4	17
20	A simple approach to sparse clustering. Computational Statistics and Data Analysis, 2017, 105, 217-228.	0.7	14
21	Remember the curse of dimensionality: the case of goodness-of-fit testing in arbitrary dimension. Journal of Nonparametric Statistics, 2018, 30, 448-471.	0.4	10
22	A two-stage denoising filter: The preprocessed Yaroslavsky filter. , 2012, , .		8
23	On the consistency of the crossmatch test. Journal of Statistical Planning and Inference, 2016, 171, 184-190.	0.4	8
24	Detection of sparse mixtures: higher criticism and scan statistic. Electronic Journal of Statistics, 2019, 13, .	0.4	7
25	Unconstrained and Curvature-Constrained Shortest-Path Distances and Their Approximation. Discrete and Computational Geometry, 2019, 62, 1-28.	0.4	6
26	Networks of polynomial pieces with application to the analysis of point clouds and images. Journal of Approximation Theory, 2010, 162, 94-130.	0.5	5
27	Minimax Estimation of the Volume of a Set Under the Rolling Ball Condition. Journal of the American Statistical Association, 2019, 114, 1162-1173.	1.8	4
28	The sparse variance contamination model. Statistics, 2020, 54, 1081-1093.	0.3	3
29	A scan procedure for multiple testing: Beyond threshold-type procedures. Journal of Statistical Planning and Inference, 2021, 210, 42-52.	0.4	3
30	Distribution-free detection of a submatrix. Journal of Multivariate Analysis, 2017, 156, 29-38.	0.5	2
31	On the power of some sequential multiple testing procedures. Annals of the Institute of Statistical Mathematics, 2021, 73, 311-336.	0.5	2
32	Finite size percolation in regular trees. Statistics and Probability Letters, 2011, 81, 302-309.	0.4	1
33	A Multiscale Scan Statistic for Adaptive Submatrix Localization. , 2019, , .		1
34	Estimation of the global mode of a density: Minimaxity, adaptation, and computational complexity. Electronic Journal of Statistics, 2022, 16, .	0.4	1
35	A nonparametric framework for quantifying generative inference on neuromorphic systems. , 2016, , .		0
36	An EM algorithm for fitting a mixture model with symmetric log-concave densities. Communications in Statistics - Theory and Methods, 2020, 49, 78-87.	0.6	0

#	Article	IF	Citations
37	Template Matching and Change Point Detection by M-Estimation. IEEE Transactions on Information Theory, 2022, 68, 423-447.	1.5	0