

Luis Angel GarcÃ-a-Escudero

List of Publications by Year in descending order

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63
papers

1,526
citations

394421

19
h-index

330143

37
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66
all docs

66
docs citations

66
times ranked

788
citing authors

#	ARTICLE	IF	CITATIONS
1	A general trimming approach to robust cluster Analysis. Annals of Statistics, 2008, 36, .	2.6	178
2	A review of robust clustering methods. Advances in Data Analysis and Classification, 2010, 4, 89-109.	1.4	161
3	Robustness Properties of k Means and Trimmed k Means. Journal of the American Statistical Association, 1999, 94, 956-969.	3.1	92
4	A Proposal for Robust Curve Clustering. Journal of Classification, 2005, 22, 185-201.	2.2	88
5	Robustness Properties of k Means and Trimmed k Means. Journal of the American Statistical Association, 1999, 94, 956.	3.1	83
6	<code>rtclust</code> : An R Package for a Trimming Approach to Cluster Analysis. Journal of Statistical Software, 2012, 47, .	3.7	78
7	Exploring the number of groups in robust model-based clustering. Statistics and Computing, 2011, 21, 585-599.	1.5	77
8	Robust clusterwise linear regression through trimming. Computational Statistics and Data Analysis, 2010, 54, 3057-3069.	1.2	58
9	Trimming Tools in Exploratory Data Analysis. Journal of Computational and Graphical Statistics, 2003, 12, 434-449.	1.7	51
10	Practical Aspects of Mixed-Eccentricity Detection in PWM Voltage-Source-Inverter-Fed Induction Motors. IEEE Transactions on Industrial Electronics, 2010, 57, 252-262.	7.9	51
11	A fast algorithm for robust constrained clustering. Computational Statistics and Data Analysis, 2013, 61, 124-136.	1.2	46
12	Avoiding spurious local maximizers in mixture modeling. Statistics and Computing, 2015, 25, 619-633.	1.5	45
13	Finding the Number of Normal Groups in Model-Based Clustering via Constrained Likelihoods. Journal of Computational and Graphical Statistics, 2018, 27, 404-416.	1.7	43
14	Robust linear clustering. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2009, 71, 301-318.	2.2	41
15	Robust condition monitoring for early detection of broken rotor bars in induction motors. Expert Systems With Applications, 2011, 38, 2653-2660.	7.6	37
16	Neural network broken bar detection using time domain and current spectrum data. , 2012, , .		24
17	A central limit theorem for multivariate generalized trimmed k -means. Annals of Statistics, 1999, 27, 1061.	2.6	23
18	Robust constrained fuzzy clustering. Information Sciences, 2013, 245, 38-52.	6.9	23

#	ARTICLE	IF	CITATIONS
19	A constrained robust proposal for mixture modeling avoiding spurious solutions. <i>Advances in Data Analysis and Classification</i> , 2014, 8, 27-43.	1.4	20
20	Robust estimation of mixtures of regressions with random covariates, via trimming and constraints. <i>Statistics and Computing</i> , 2017, 27, 377-402.	1.5	19
21	A reweighting approach to robust clustering. <i>Statistics and Computing</i> , 2018, 28, 477-493.	1.5	19
22	The joint role of trimming and constraints in robust estimation for mixtures of Gaussian factor analyzers. <i>Computational Statistics and Data Analysis</i> , 2016, 99, 131-147.	1.2	16
23	Variables Influencing Pre-Service Teacher Training in Education for Sustainable Development: A Case Study of Two Spanish Universities. <i>Sustainability</i> , 2019, 11, 4412.	3.2	16
24	Robust fuzzy clustering of time series based on B-splines. <i>International Journal of Approximate Reasoning</i> , 2021, 136, 223-246.	3.3	16
25	Generalized Radius Processes for Elliptically Contoured Distributions. <i>Journal of the American Statistical Association</i> , 2005, 100, 1036-1045.	3.1	15
26	On the breakdown behavior of the TCLUSST clustering procedure. <i>Test</i> , 2013, 22, 466-487.	1.1	14
27	Eigenvalues and constraints in mixture modeling: geometric and computational issues. <i>Advances in Data Analysis and Classification</i> , 2018, 12, 203-233.	1.4	14
28	Cost optimization of electrical contracted capacity for large customers. <i>International Journal of Electrical Power and Energy Systems</i> , 2013, 46, 123-131.	5.5	12
29	Robust clustering for functional data based on trimming and constraints. <i>Advances in Data Analysis and Classification</i> , 2019, 13, 201-225.	1.4	12
30	Condition monitoring of induction motors fed by Voltage Source Inverters. <i>Statistical analysis of spectral data.</i> , 2012, , .		11
31	In Patients With Obesity, the Number of Adipose Tissue Mast Cells Is Significantly Lower in Subjects With Type 2 Diabetes. <i>Frontiers in Immunology</i> , 2021, 12, 664576.	4.8	11
32	Constrained parsimonious model-based clustering. <i>Statistics and Computing</i> , 2022, 32, 2.	1.5	11
33	The importance of the scales in heterogeneous robust clustering. <i>Computational Statistics and Data Analysis</i> , 2007, 51, 4403-4412.	1.2	10
34	The influence function of the TCLUSST robust clustering procedure. <i>Advances in Data Analysis and Classification</i> , 2012, 6, 107-130.	1.4	10
35	A fuzzy approach to robust regression clustering. <i>Advances in Data Analysis and Classification</i> , 2017, 11, 691-710.	1.4	9
36	Diagnosis of Broken Rotor Bars during the Startup of Inverter-Fed Induction Motors Using the Dragon Transform and Functional ANOVA. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3769.	2.5	9

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37	Assessing trends in Duane plots using robust fits. Reliability Engineering and System Safety, 2005, 90, 106-113.	8.9	7
38	Determination and Optimization of the Maintenance Frequencies in the Overhead Contact Line System. Journal of Transportation Engineering, 2010, 136, 964-972.	0.9	7
39	Robust multivariate control charts for early detection of broken rotor bars in an induction motors fed by a voltage source inverter. , 2011, , .		7
40	Criticality determination based on failure records for decision-making in the overhead contact line system. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2009, 223, 485-494.	2.0	6
41	Fitting parabolas in noisy images. Computational Statistics and Data Analysis, 2017, 112, 80-87.	1.2	6
42	Parameter Choice, Stability and Validity for Robust Cluster Weighted Modeling. Stats, 2021, 4, 602-615.	0.9	6
43	Model-based clustering with determinant-and-shape constraint. Statistics and Computing, 2020, 30, 1363-1380.	1.5	5
44	In Obese Patients With Type 2 Diabetes, Mast Cells in Omental Adipose Tissue Decrease the Surface Expression of CD45, CD117, CD203c, and Fc̳RI. Frontiers in Endocrinology, 2022, 13, 818388.	3.5	5
45	On the Asymptotics of Trimmed Best k-Nets. Journal of Multivariate Analysis, 2002, 82, 486-516.	1.0	4
46	Experimental identification of induction motor broken bar characteristic frequencies using a programmable power source. , 2010, , .		4
47	Bearing lubrication assessment using an statistical analysis of the stator current spectrum. , 2010, , .		4
48	Robust, fuzzy, and parsimonious clustering, based on mixtures of Factor Analyzers. International Journal of Approximate Reasoning, 2018, 94, 60-75.	3.3	4
49	Some practical aspects of eccentricity detection in induction motors for different supply conditions. , 2008, , .		3
50	A Robust Maximal F-Ratio Statistic to Detect Clusters Structure. Communications in Statistics - Theory and Methods, 2009, 38, 682-694.	1.0	3
51	Statistical Study of Combustion Characteristics and Optimal Operation Factor Determination in an Emulsion Burner Fueled with Vegetable Oils. Energy & Fuels, 2019, 33, 10989-10998.	5.1	3
52	Warning procedures for systems that are improving. Quality and Reliability Engineering International, 2008, 24, 377-387.	2.3	2
53	Robust Fuzzy Clustering via Trimming and Constraints. Advances in Intelligent Systems and Computing, 2017, , 197-204.	0.6	2
54	Robust clustering of functional directional data. Advances in Data Analysis and Classification, 2022, 16, 181-199.	1.4	2

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55	Comments on: Multivariate functional outlier detection. Statistical Methods and Applications, 2015, 24, 233-235.	1.2	1
56	Comments on "The power of monitoring: how to make the most of a contaminated multivariate sample". Statistical Methods and Applications, 2018, 27, 605-608.	1.2	1
57	Robust Clustering for Time Series Using Spectral Densities and Functional Data Analysis. Lecture Notes in Computer Science, 2017, , 142-153.	1.3	1
58	Discussion: The forward search: Theory and data analysis. Journal of the Korean Statistical Society, 2010, 39, 135-136.	0.4	0
59	Identification of eccentricity related-faults characteristic frequencies in induction motors using a programmable power source. , 2011, , .		0
60	Comments on: model-based clustering and classification with non-normal mixture distributions. Statistical Methods and Applications, 2013, 22, 459-461.	1.2	0
61	Time Series, Spectral Densities and Robust Functional Clustering. Neural Processing Letters, 2020, 52, 135-152.	3.2	0
62	Grouping Around Different Dimensional Affine Subspaces. Studies in Classification, Data Analysis, and Knowledge Organization, 2013, , 131-139.	0.2	0
63	GUÍA DE BUENAS PRÁCTICAS QUE GARANTICEN LA CONTINUIDAD DE SUMINISTRO ELÉCTRICO EN CENTROS HOSPITALARIOS. Dyna (Spain), 2014, 89, 256-256.	0.2	0