Matias Salibian-Barrera

List of Publications by Year
in descending order

42 papers	919 citations
687363 13 h-index	501196 28 g-index
52 all docs	52 docs citations
52 times ranked	605 citing authors

#	Article	IF	Citations
1	A Fast Algorithm for S-Regression Estimates. Journal of Computational and Graphical Statistics, 2006, 15, 414-427.	1.7	164
2	Bootrapping robust estimates of regression. Annals of Statistics, 2002, 30, 556.	2.6	126
3	Principal Components Analysis Based on Multivariate MM Estimators With Fast and Robust Bootstrap. Journal of the American Statistical Association, 2006, 101, 1198-1211.	3.1	116
4	Fast and robust bootstrap. Statistical Methods and Applications, 2008, 17, 41-71.	1.2	67
5	On tests for multivariate normality and associated simulation studies. Journal of Statistical Computation and Simulation, 2007, 77, 1065-1080.	1.2	50
6	RSKC: An<i>R</i>Package for a Robust and Sparse K-Means Clustering Algorithm. Journal of Statistical Software, 2016, 72, .	3.7	40
7	The Fast-τ Estimator for Regression. Journal of Computational and Graphical Statistics, 2008, 17, 659-682.	1.7	38
8	Robust model selection using fast and robust bootstrap. Computational Statistics and Data Analysis, 2008, 52, 5121-5135.	1.2	35
9	An Outlier-Robust Fit for Generalized Additive Models With Applications to Disease Outbreak Detection. Journal of the American Statistical Association, 2011, 106, 719-731.	3.1	33
10	<i>S</i>-Estimators for Functional Principal Component Analysis. Journal of the American Statistical Association, 2015, 110, 1100-1111.	3.1	28
11	S-Estimation for Penalized Regression Splines. Journal of Computational and Graphical Statistics, 2010, 19, 609-625.	1.7	21
12	A characterization of elliptical distributions and some optimality properties of principal components for functional data. Journal of Multivariate Analysis, 2014, 131, 254-264.	1.0	20
13	Robust tests for linear regression models based on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si118.gif" display="inline" overflow="scroll"><mml:mi>τ</mml:mi></mml:math>-estimates. Computational Statistics and Data Analysis, 2016, 93, 436-455.	1.2	15
14	Robust elastic net estimators for variable selection and identification of proteomic biomarkers. Annals of Applied Statistics, 2019, 13, .	1.1	14
15	Bootstrapping MM-estimators for linear regression with fixed designs. Statistics and Probability Letters, 2006, 76, 1287-1297.	0.7	13
16	Uniform asymptotics for robust location estimates when the scale is unknown. Annals of Statistics, 2004, 32, 1434.	2.6	12
17	Estimating the p-values of robust tests for the linear model. Journal of Statistical Planning and Inference, 2005, 128, 241-257.	0.6	12
18	The Asymptotics of MM-Estimators for Linear Regression with Fixed Designs. Metrika, 2006, 63, 283-294.	0.8	12

#	Article	IF	Citations
19	Globally robust inference for the location and simple linear regression models. Journal of Statistical Planning and Inference, 2004, 119, 353-375.	0.6	10
20	Robust boosting for regression problems. Computational Statistics and Data Analysis, 2021, 153, 107065.	1.2	10
21	High breakdown point robust regression with censored data. Annals of Statistics, 2008, 36, .	2.6	8
22	Uniform asymptotics for S- and MM-regression estimators. Annals of the Institute of Statistical Mathematics, 2010, 62, 897-927.	0.8	8
23	Globally robust confidence intervals for simple linear regression. Computational Statistics and Data Analysis, 2010, 54, 2899-2913.	1.2	8
24	Modulation recognition in the 868 MHz band using classification trees and random forests. AEU - International Journal of Electronics and Communications, 2016, 70, 1321-1328.	2.9	8
25	Robust estimators for additive models using backfitting. Journal of Nonparametric Statistics, 2017, 29, 744-767.	0.9	8
26	Robust estimation for semi-functional linear regression models. Computational Statistics and Data Analysis, 2020, 152, 107041.	1.2	8
27	Robust functional principal components for sparse longitudinal data. Metron, 2021, 79, 159-188.	1.2	8
28	Finding approximate solutions to combinatorial problems with very large data sets using BIRCH. Computational Statistics and Data Analysis, 2010, 54, 655-667.	1.2	7
29	Methods for preferential sampling in geostatistics. Journal of the Royal Statistical Society Series C: Applied Statistics, 2019, 68, 181-198.	1.0	6
30	Modelling ocean temperatures from bio-probes under preferential sampling. Annals of Applied Statistics, 2019, 13, .	1.1	4
31	Using artificial censoring to improve extreme tail quantile estimates. Journal of the Royal Statistical Society Series C: Applied Statistics, 2018, 67, 791-812.	1.0	2
32	Robust Model Selection with LARS Based on S-estimators. , 2010, , 69-78.		2
33	Qualitative Robustness of Bootstrap Approximations for Kernel Based Methods. , 2013, , 263-278.		2
34	S-Estimation for Penalized Regression Splines. SSRN Electronic Journal, 0, , .	0.4	1
35	Linear Regression 1. Wiley Series in Probability and Statistics, 2019, , 87-114.	0.0	1
36	A Probabilistic Method for Detecting Multivariate Extreme Outliers. International Journal of Nonlinear Sciences and Numerical Simulation, 2004, 5, .	1.0	0

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37	Location and Scale. Wiley Series in Probability and Statistics, 2019, , 17-50.	0.0	0
38	Asymptotic Theory of M-estimators. Wiley Series in Probability and Statistics, 2019, , 373-399.	0.0	0
39	Description of Datasets. Wiley Series in Probability and Statistics, 2019, , 401-406.	0.0	0
40	Measuring Robustness. Wiley Series in Probability and Statistics, 2019, , 51-86.	0.0	0
41	Linear Regression 2. Wiley Series in Probability and Statistics, 2019, , 115-193.	0.0	0
42	RBF: An R package to compute a robust backfitting estimator for additive models. Journal of Open Source Software, 2021, 6, 2992.	4.6	0