

Mia Hubert

List of Publications by Year in descending order

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87
papers

6,519
citations

101543

36
h-index

66911

78
g-index

95
all docs

95
docs citations

95
times ranked

5725
citing authors

#	ARTICLE	IF	CITATIONS
1	ROBPCA: A New Approach to Robust Principal Component Analysis. <i>Technometrics</i> , 2005, 47, 64-79.	1.9	770
2	An adjusted boxplot for skewed distributions. <i>Computational Statistics and Data Analysis</i> , 2008, 52, 5186-5201.	1.2	514
3	Robust statistics for outlier detection. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2011, 1, 73-79.	6.8	434
4	LIBRA: a MATLAB library for robust analysis. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2005, 75, 127-136.	3.5	339
5	High-Breakdown Robust Multivariate Methods. <i>Statistical Science</i> , 2008, 23, .	2.8	222
6	A Robust Measure of Skewness. <i>Journal of Computational and Graphical Statistics</i> , 2004, 13, 996-1017.	1.7	220
7	Robust methods for partial least squares regression. <i>Journal of Chemometrics</i> , 2003, 17, 537-549.	1.3	216
8	Regression Depth. <i>Journal of the American Statistical Association</i> , 1999, 94, 388-402.	3.1	205
9	Outlier detection for skewed data. <i>Journal of Chemometrics</i> , 2008, 22, 235-246.	1.3	204
10	A fast method for robust principal components with applications to chemometrics. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2002, 60, 101-111.	3.5	195
11	Minimum covariance determinant. <i>Wiley Interdisciplinary Reviews: Computational Statistics</i> , 2010, 2, 36-43.	3.9	175
12	Robust PCA and classification in biosciences. <i>Bioinformatics</i> , 2004, 20, 1728-1736.	4.1	157
13	Fast and robust discriminant analysis. <i>Computational Statistics and Data Analysis</i> , 2004, 45, 301-320.	1.2	153
14	Integrating robust clustering techniques in S-PLUS. <i>Computational Statistics and Data Analysis</i> , 1997, 26, 17-37.	1.2	138
15	Anomaly detection by robust statistics. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2018, 8, e1236.	6.8	122
16	Robust classification in high dimensions based on the SIMCA Method. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2005, 79, 10-21.	3.5	121
17	Multivariate functional outlier detection. <i>Statistical Methods and Applications</i> , 2015, 24, 177-202.	1.2	121
18	Robustness and Outlier Detection in Chemometrics. <i>Critical Reviews in Analytical Chemistry</i> , 2006, 36, 221-242.	3.5	116

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19	Minimum covariance determinant and extensions. Wiley Interdisciplinary Reviews: Computational Statistics, 2018, 10, e1421.	3.9	108
20	A Deterministic Algorithm for Robust Location and Scatter. Journal of Computational and Graphical Statistics, 2012, 21, 618-637.	1.7	102
21	Overview of PCA-Based Statistical Process-Monitoring Methods for Time-Dependent, High-Dimensional Data. Journal of Quality Technology, 2015, 47, 318-335.	2.5	98
22	Clustering in an Object-Oriented Environment. Journal of Statistical Software, 1996, 1, .	3.7	94
23	Multivariate Functional Halfspace Depth. Journal of the American Statistical Association, 2014, 109, 411-423.	3.1	92
24	Robust PCA for skewed data and its outlier map. Computational Statistics and Data Analysis, 2009, 53, 2264-2274.	1.2	89
25	A systematic comparison of PCA-based Statistical Process Monitoring methods for high-dimensional, time-dependent Processes. AIChE Journal, 2016, 62, 1478-1493.	3.6	86
26	A robust PCR method for high-dimensional regressors. Journal of Chemometrics, 2003, 17, 438-452.	1.3	81
27	Robust regression with both continuous and binary regressors. Journal of Statistical Planning and Inference, 1997, 57, 153-163.	0.6	73
28	Robust measures of tail weight. Computational Statistics and Data Analysis, 2006, 50, 733-759.	1.2	66
29	A robust estimator for the tail index of Pareto-type distributions. Computational Statistics and Data Analysis, 2007, 51, 6252-6268.	1.2	64
30	Regression Depth. Journal of the American Statistical Association, 1999, 94, 388.	3.1	58
31	A robustification of independent component analysis. Journal of Chemometrics, 2005, 19, 364-375.	1.3	56
32	Recent developments in PROGRESS. Lecture Notes-monograph Series / Institute of Mathematical Statistics, 1997, , 201-214.	1.0	55
33	Sparse PCA for High-Dimensional Data With Outliers. Technometrics, 2016, 58, 424-434.	1.9	44
34	Lack of fluorophotometric evidence of aqueous-vitreous barrier disruption after posterior capsulorhexis. Journal of Cataract and Refractive Surgery, 2003, 29, 2330-2338.	1.5	42
35	MATLAB library LIBRA. Wiley Interdisciplinary Reviews: Computational Statistics, 2010, 2, 509-515.	3.9	41
36	Goodness-of-fit tests based on a robust measure of skewness. Computational Statistics, 2008, 23, 429-442.	1.5	38

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37	Fast cross-validation of high-breakdown resampling methods for PCA. Computational Statistics and Data Analysis, 2007, 51, 5013-5024.	1.2	34
38	The Deepest Regression Method. Journal of Multivariate Analysis, 2002, 81, 138-166.	1.0	33
39	Robust preprocessing and model selection for spectral data. Journal of Chemometrics, 2012, 26, 282-289.	1.3	33
40	Multivariate and functional classification using depth and distance. Advances in Data Analysis and Classification, 2017, 11, 445-466.	1.4	33
41	Automatically identifying scatter in fluorescence data using robust techniques. Chemometrics and Intelligent Laboratory Systems, 2007, 86, 35-51.	3.5	32
42	Detecting influential observations in Kernel PCA. Computational Statistics and Data Analysis, 2010, 54, 3007-3019.	1.2	32
43	A Measure of Directional Outlyingness With Applications to Image Data and Video. Journal of Computational and Graphical Statistics, 2018, 27, 345-359.	1.7	32
44	Robustness properties of a robust partial least squares regression method. Analytica Chimica Acta, 2004, 515, 229-241.	5.4	31
45	Robustness of Kernel Based Regression: A Comparison of Iterative Weighting Schemes. Lecture Notes in Computer Science, 2009, , 100-110.	1.3	31
46	MacroPCA: An All-in-One PCA Method Allowing for Missing Values as Well as Cellwise and Rowwise Outliers. Technometrics, 2019, 61, 459-473.	1.9	30
47	Robust PARAFAC for incomplete data. Journal of Chemometrics, 2012, 26, 290-298.	1.3	29
48	The DetS and DetMM estimators for multivariate location and scatter. Computational Statistics and Data Analysis, 2015, 81, 64-75.	1.2	25
49	The breakdown value of the L1 estimator in contingency tables. Statistics and Probability Letters, 1997, 33, 419-425.	0.7	24
50	The Catline for Deep Regression. Journal of Multivariate Analysis, 1998, 66, 270-296.	1.0	22
51	Multivariate Outlier Detection and Robustness. Handbook of Statistics, 2005, 24, 263-302.	0.6	22
52	Depth in an Arrangement of Hyperplanes. Discrete and Computational Geometry, 1999, 22, 167-176.	0.6	21
53	Robust classification for skewed data. Advances in Data Analysis and Classification, 2010, 4, 239-254.	1.4	21
54	Robust Monitoring of Time Series with Application to Fraud Detection. Econometrics and Statistics, 2019, 9, 108-121.	0.8	21

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55	Fast model selection for robust calibration methods. <i>Analytica Chimica Acta</i> , 2005, 544, 219-228.	5.4	20
56	The influence function of the Stahel-Donoho covariance estimator of smallest outlyingness. <i>Statistics and Probability Letters</i> , 2009, 79, 275-282.	0.7	19
57	Robustness of reweighted Least Squares Kernel Based Regression. <i>Journal of Multivariate Analysis</i> , 2010, 101, 447-463.	1.0	18
58	Regression-free and robust estimation of scale for bivariate data. <i>Computational Statistics and Data Analysis</i> , 1996, 21, 67-85.	1.2	16
59	Breakdown value. <i>Wiley Interdisciplinary Reviews: Computational Statistics</i> , 2009, 1, 296-302.	3.9	16
60	Phase and amplitude-based clustering for functional data. <i>Computational Statistics and Data Analysis</i> , 2012, 56, 2360-2374.	1.2	16
61	Detecting influential data points for the Hill estimator in Pareto-type distributions. <i>Computational Statistics and Data Analysis</i> , 2013, 65, 13-28.	1.2	16
62	Parameter selection guidelines for adaptive PCA-based control charts. <i>Journal of Chemometrics</i> , 2016, 30, 163-176.	1.3	16
63	Detecting outlying samples in a parallel factor analysis model. <i>Analytica Chimica Acta</i> , 2011, 705, 155-165.	5.4	15
64	High-Breakdown Estimators of Multivariate Location and Scatter. , 2013, , 49-66.		15
65	Statistical process monitoring of time-dependent data. <i>Quality Engineering</i> , 2016, 28, 127-142.	1.1	13
66	Fast robust SUR with economical and actuarial applications. <i>Statistical Analysis and Data Mining</i> , 2017, 10, 77-88.	2.8	11
67	Real-time outlier detection for large datasets by RT-DetMCD. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020, 199, 103957.	3.5	11
68	Regression Depth: Rejoinder. <i>Journal of the American Statistical Association</i> , 1999, 94, 419.	3.1	10
69	Robust multilevel simultaneous component analysis. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2013, 129, 33-39.	3.5	10
70	Real-time discriminant analysis in the presence of label and measurement noise. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 208, 104197.	3.5	10
71	Robust learning from bites for data mining. <i>Computational Statistics and Data Analysis</i> , 2007, 52, 347-361.	1.2	9
72	Censored depth quantiles. <i>Computational Statistics and Data Analysis</i> , 2008, 52, 1604-1614.	1.2	8

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73	Shape bias of robust covariance estimators: an empirical study. <i>Statistical Papers</i> , 2014, 55, 15-28.	1.2	8
74	Outlier detection in non-elliptical data by kernel MRCD. <i>Statistics and Computing</i> , 2021, 31, 1.	1.5	7
75	Rejoinder to "multivariate functional outlier detection" TM . <i>Statistical Methods and Applications</i> , 2015, 24, 269-277.	1.2	5
76	Robust and Nonparametric Statistical Methods. , 2009, , 189-211.		4
77	Reducing the mean squared error of quantile-based estimators by smoothing. <i>Test</i> , 2013, 22, 448-465.	1.1	3
78	Analysis of travel activity determinants using robust statistics. <i>Transportation</i> , 2016, 43, 979-996.	4.0	3
79	Class Maps for Visualizing Classification Results. <i>Technometrics</i> , 2022, 64, 151-165.	1.9	3
80	Similarities Between Location Depth and Regression Depth. , 2001, , 159-172.		2
81	Robust Calibration. , 2009, , 315-343.		1
82	Editorial, special issue on "Advances in Robust Statistics". <i>Metron</i> , 2021, 79, 121-125.	1.2	1
83	Phase and Amplitude-Based Clustering for Functional Data. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
84	DetMCD in a Calibration Framework. , 2010, , 589-596.		1
85	Multivariate Functional Halfspace Depth. <i>SSRN Electronic Journal</i> , 2012, , .	0.4	0
86	Robust Multivariate Statistical Methods. , 2020, , 107-122.		0
87	Robust Methods for High-Dimensional Data. , 2020, , 149-171.		0