

Peter J Rousseeuw

List of Publications by Year in descending order

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94
papers

32,918
citations

76196

40
h-index

69108

77
g-index

99
all docs

99
docs citations

99
times ranked

29179
citing authors

#	ARTICLE	IF	CITATIONS
1	Silhouettes: A graphical aid to the interpretation and validation of cluster analysis. <i>Journal of Computational and Applied Mathematics</i> , 1987, 20, 53-65.	1.1	12,746
2	Robust Regression and Outlier Detection. <i>Wiley Series in Probability and Statistics</i> , 1987, , .	0.0	3,479
3	Least Median of Squares Regression. <i>Journal of the American Statistical Association</i> , 1984, 79, 871-880.	1.8	2,654
4	A Fast Algorithm for the Minimum Covariance Determinant Estimator. <i>Technometrics</i> , 1999, 41, 212-223.	1.3	1,719
5	Alternatives to the Median Absolute Deviation. <i>Journal of the American Statistical Association</i> , 1993, 88, 1273-1283.	1.8	1,413
6	Alternatives to the Median Absolute Deviation. , 0, .		1,090
7	Unmasking Multivariate Outliers and Leverage Points. <i>Journal of the American Statistical Association</i> , 1990, 85, 633-639.	1.8	1,044
8	Least Median of Squares Regression. , 0, .		966
9	ROBPCA: A New Approach to Robust Principal Component Analysis. <i>Technometrics</i> , 2005, 47, 64-79.	1.3	770
10	A Fast Algorithm for the Minimum Covariance Determinant Estimator. , 0, .		601
11	Multivariate Estimation with High Breakdown Point. , 1985, , 283-297.		600
12	Robust statistics for outlier detection. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2011, 1, 73-79.	4.6	434
13	Computing LTS Regression for Large Data Sets. <i>Data Mining and Knowledge Discovery</i> , 2006, 12, 29-45.	2.4	415
14	Unmasking Multivariate Outliers and Leverage Points. , 0, .		338
15	Breakdown Points of Affine Equivariant Estimators of Multivariate Location and Covariance Matrices. <i>Annals of Statistics</i> , 1991, 19, 229.	1.4	324
16	The Bagplot: A Bivariate Boxplot. <i>American Statistician</i> , 1999, 53, 382.	0.9	304
17	High-Breakdown Robust Multivariate Methods. <i>Statistical Science</i> , 2008, 23, .	1.6	222
18	Regression Depth. <i>Journal of the American Statistical Association</i> , 1999, 94, 388-402.	1.8	205

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19	A fast method for robust principal components with applications to chemometrics. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2002, 60, 101-111.	1.8	195
20	Computing depth contours of bivariate point clouds. <i>Computational Statistics and Data Analysis</i> , 1996, 23, 153-168.	0.7	185
21	The Bagplot: A Bivariate Boxplot. <i>American Statistician</i> , 1999, 53, 382-387.	0.9	165
22	Faster k-Medoids Clustering: Improving the PAM, CLARA, and CLARANS Algorithms. <i>Lecture Notes in Computer Science</i> , 2019, , 171-187.	1.0	143
23	Computing location depth and regression depth in higher dimensions. <i>Statistics and Computing</i> , 1998, 8, 193-203.	0.8	138
24	Robust factor analysis. <i>Journal of Multivariate Analysis</i> , 2003, 84, 145-172.	0.5	138
25	Minimum volume ellipsoid. <i>Wiley Interdisciplinary Reviews: Computational Statistics</i> , 2009, 1, 71-82.	2.1	127
26	Anomaly detection by robust statistics. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2018, 8, e1236.	4.6	122
27	Multivariate functional outlier detection. <i>Statistical Methods and Applications</i> , 2015, 24, 177-202.	0.7	121
28	Robust Multivariate Regression. <i>Technometrics</i> , 2004, 46, 293-305.	1.3	119
29	Robustness and Outlier Detection in Chemometrics. <i>Critical Reviews in Analytical Chemistry</i> , 2006, 36, 221-242.	1.8	116
30	Minimum covariance determinant and extensions. <i>Wiley Interdisciplinary Reviews: Computational Statistics</i> , 2018, 10, e1421.	2.1	108
31	Econometric applications of high-breakdown robust regression techniques. <i>Economics Letters</i> , 2001, 71, 1-8.	0.9	107
32	Algorithm AS 307: Bivariate Location Depth. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 1996, 45, 516.	0.5	102
33	A Deterministic Algorithm for Robust Location and Scatter. <i>Journal of Computational and Graphical Statistics</i> , 2012, 21, 618-637.	0.9	102
34	Generalized S-Estimators. <i>Journal of the American Statistical Association</i> , 1994, 89, 1271-1281.	1.8	93
35	Robust PCA for skewed data and its outlier map. <i>Computational Statistics and Data Analysis</i> , 2009, 53, 2264-2274.	0.7	89
36	Robust regression with both continuous and binary regressors. <i>Journal of Statistical Planning and Inference</i> , 1997, 57, 153-163.	0.4	73

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37	Detecting Deviating Data Cells. <i>Technometrics</i> , 2018, 60, 135-145.	1.3	68
38	Fast and eager k -medoids clustering: runtime improvement of the PAM, CLARA, and CLARANS algorithms. <i>Information Systems</i> , 2021, 101, 101804.	2.4	62
39	Robustness against separation and outliers in logistic regression. <i>Computational Statistics and Data Analysis</i> , 2003, 43, 315-332.	0.7	61
40	High-dimensional computation of the deepest location. <i>Computational Statistics and Data Analysis</i> , 2000, 34, 415-426.	0.7	58
41	Regression Depth. , 0, .		58
42	Recent developments in PROGRESS. <i>Lecture Notes-monograph Series / Institute of Mathematical Statistics</i> , 1997, , 201-214.	1.0	55
43	A class of high-breakdown scale estimators based on subranges. <i>Communications in Statistics - Theory and Methods</i> , 1992, 21, 1935-1951.	0.6	52
44	Halfspace Depth and Regression Depth Characterize the Empirical Distribution. <i>Journal of Multivariate Analysis</i> , 1999, 69, 135-153.	0.5	47
45	Robust Distances: Simulations and Cutoff Values. <i>The IMA Volumes in Mathematics and Its Applications</i> , 1991, , 195-203.	0.5	44
46	Measuring overlap in binary regression. <i>Computational Statistics and Data Analysis</i> , 2001, 37, 65-75.	0.7	43
47	The Change-of-Variance Curve and Optimal Redescending M -Estimators. <i>Journal of the American Statistical Association</i> , 1981, 76, 643-648.	1.8	37
48	A new infinitesimal approach to robust estimation. <i>Zeitschrift für Wahrscheinlichkeitstheorie Und Verwandte Gebiete</i> , 1981, 56, 127-132.	0.8	36
49	Influence curves of general statistics. <i>Journal of Computational and Applied Mathematics</i> , 1981, 7, 161-166.	1.1	34
50	Robustness of Deepest Regression. <i>Journal of Multivariate Analysis</i> , 2000, 73, 82-106.	0.5	34
51	The Deepest Regression Method. <i>Journal of Multivariate Analysis</i> , 2002, 81, 138-166.	0.5	33
52	Multivariate and functional classification using depth and distance. <i>Advances in Data Analysis and Classification</i> , 2017, 11, 445-466.	0.9	33
53	The bias of k -step M -estimators. <i>Statistics and Probability Letters</i> , 1994, 20, 411-420.	0.4	32
54	A Measure of Directional Outlyingness With Applications to Image Data and Video. <i>Journal of Computational and Graphical Statistics</i> , 2018, 27, 345-359.	0.9	32

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55	The minimum regularized covariance determinant estimator. <i>Statistics and Computing</i> , 2020, 30, 113-128.	0.8	32
56	CLUSTERING LARGE DATA SETS. , 1986, , 425-437.		31
57	The Competitive Advantage of Seaports. <i>Maritime Economics and Logistics</i> , 2000, 2, 69-82.	0.8	31
58	Efficient computation of location depth contours by methods of computational geometry. <i>Statistics and Computing</i> , 2003, 13, 153-162.	0.8	30
59	MacroPCA: An All-in-One PCA Method Allowing for Missing Values as Well as Cellwise and Rowwise Outliers. <i>Technometrics</i> , 2019, 61, 459-473.	1.3	30
60	Fast Robust Correlation for High-Dimensional Data. <i>Technometrics</i> , 2021, 63, 184-198.	1.3	27
61	The DetS and DetMM estimators for multivariate location and scatter. <i>Computational Statistics and Data Analysis</i> , 2015, 81, 64-75.	0.7	25
62	Generalized S-Estimators. , 0, .		25
63	Transforming variables to central normality. <i>Machine Learning</i> , 0, , 1.	3.4	23
64	The Catline for Deep Regression. <i>Journal of Multivariate Analysis</i> , 1998, 66, 270-296.	0.5	22
65	Multivariate Outlier Detection and Robustness. <i>Handbook of Statistics</i> , 2005, 24, 263-302.	0.4	22
66	Robust Monitoring of Time Series with Application to Fraud Detection. <i>Econometrics and Statistics</i> , 2019, 9, 108-121.	0.4	21
67	Location adjustment for the minimum volume ellipsoid estimator. <i>Statistics and Computing</i> , 2002, 12, 191-200.	0.8	20
68	Characterizing angular symmetry and regression symmetry. <i>Journal of Statistical Planning and Inference</i> , 2004, 122, 161-173.	0.4	19
69	Robust identification of target genes and outliers in triple-negative breast cancer data. <i>Statistical Methods in Medical Research</i> , 2019, 28, 3042-3056.	0.7	17
70	High-Breakdown Estimators of Multivariate Location and Scatter. , 2013, , 49-66.		15
71	A generalized spatial sign covariance matrix. <i>Journal of Multivariate Analysis</i> , 2019, 171, 94-111.	0.5	13
72	Most robust M-estimators in the infinitesimal sense. <i>Zeitschrift für Wahrscheinlichkeitstheorie Und Verwandte Gebiete</i> , 1982, 61, 541-551.	0.8	12

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73	Real-time outlier detection for large datasets by RT-DetMCD. Chemometrics and Intelligent Laboratory Systems, 2020, 199, 103957.	1.8	11
74	Robustness of the p-Subset Algorithm for Regression with High Breakdown Point. The IMA Volumes in Mathematics and Its Applications, 1991, , 185-194.	0.5	11
75	Regression Depth: Rejoinder. Journal of the American Statistical Association, 1999, 94, 419.	1.8	10
76	Robust multilevel simultaneous component analysis. Chemometrics and Intelligent Laboratory Systems, 2013, 129, 33-39.	1.8	10
77	Real-time discriminant analysis in the presence of label and measurement noise. Chemometrics and Intelligent Laboratory Systems, 2021, 208, 104197.	1.8	10
78	The Minimum Regularized Covariance Determinant Estimator. SSRN Electronic Journal, 0, , .	0.4	9
79	Shape bias of robust covariance estimators: an empirical study. Statistical Papers, 2014, 55, 15-28.	0.7	8
80	Outlier detection in non-elliptical data by kernel MRCD. Statistics and Computing, 2021, 31, 1.	0.8	7
81	Handling Cellwise Outliers by Sparse Regression and Robust Covariance. , 2021, 1, .		7
82	Rejoinder to "multivariate functional outlier detection". Statistical Methods and Applications, 2015, 24, 269-277.	0.7	5
83	Class Maps for Visualizing Classification Results. Technometrics, 2022, 64, 151-165.	1.3	3
84	Efficient Algorithms for Maximum Regression Depth. Discrete and Computational Geometry, 2008, 39, 656-677.	0.4	2
85	Discussion of "The power of monitoring: how to make the most of a contaminated multivariate sample". Statistical Methods and Applications, 2018, 27, 589-594.	0.7	2
86	Similarities Between Location Depth and Regression Depth. , 2001, , 159-172.		2
87	Silhouettes and Quasi Residual Plots for Neural Nets and Tree-based Classifiers. Journal of Computational and Graphical Statistics, 2022, 31, 1332-1343.	0.9	2
88	Comments on: Robust estimation of multivariate location and scatter in the presence of cellwise and casewise contamination. Test, 2015, 24, 473-477.	0.7	1
89	Comparing Reverse Complementary Genomic Words Based on Their Distance Distributions and Frequencies. Interdisciplinary Sciences, Computational Life Sciences, 2018, 10, 1-11.	2.2	1
90	An algorithm for deepest multiple regression. , 2000, , 139-150.		1

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91	DetMCD in a Calibration Framework. , 2010, , 589-596.		1
92	Special Issue on Robust Methods for Classification and Data Analysis. Advances in Data Analysis and Classification, 2010, 4, 85-87.	0.9	0
93	Clustering genomic words in human DNA using peaks and trends of distributions. Advances in Data Analysis and Classification, 2020, 14, 57-76.	0.9	0
94	Dissimilar Symmetric Word Pairs in the Human Genome. Advances in Intelligent Systems and Computing, 2017, , 248-256.	0.5	0