

# 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	Class Maps for Visualizing Classification Results. <i>Technometrics</i> , 2022, 64, 151-165.	1.3	3
2	Silhouettes and Quasi Residual Plots for Neural Nets and Tree-based Classifiers. <i>Journal of Computational and Graphical Statistics</i> , 2022, 31, 1332-1343.	0.9	2
3	Real-time discriminant analysis in the presence of label and measurement noise. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 208, 104197.	1.8	10
4	Fast Robust Correlation for High-Dimensional Data. <i>Technometrics</i> , 2021, 63, 184-198.	1.3	27
5	Outlier detection in non-elliptical data by kernel MRCD. <i>Statistics and Computing</i> , 2021, 31, 1.	0.8	7
6	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
7	Handling Cellwise Outliers by Sparse Regression and Robust Covariance. , 2021, 1, .		7
8	The minimum regularized covariance determinant estimator. <i>Statistics and Computing</i> , 2020, 30, 113-128.	0.8	32
9	Clustering genomic words in human DNA using peaks and trends of distributions. <i>Advances in Data Analysis and Classification</i> , 2020, 14, 57-76.	0.9	0
10	Real-time outlier detection for large datasets by RT-DetMCD. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020, 199, 103957.	1.8	11
11	Robust Monitoring of Time Series with Application to Fraud Detection. <i>Econometrics and Statistics</i> , 2019, 9, 108-121.	0.4	21
12	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
13	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
14	A generalized spatial sign covariance matrix. <i>Journal of Multivariate Analysis</i> , 2019, 171, 94-111.	0.5	13
15	Faster $k$ -Medoids Clustering: Improving the PAM, CLARA, and CLARANS Algorithms. <i>Lecture Notes in Computer Science</i> , 2019, , 171-187.	1.0	143
16	Comparing Reverse Complementary Genomic Words Based on Their Distance Distributions and Frequencies. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2018, 10, 1-11.	2.2	1
17	Minimum covariance determinant and extensions. <i>Wiley Interdisciplinary Reviews: Computational Statistics</i> , 2018, 10, e1421.	2.1	108
18	Discussion of "The power of monitoring: how to make the most of a contaminated multivariate sample". <i>Statistical Methods and Applications</i> , 2018, 27, 589-594.	0.7	2

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19	A Measure of Directional Outlyingness With Applications to Image Data and Video. Journal of Computational and Graphical Statistics, 2018, 27, 345-359.	0.9	32
20	Anomaly detection by robust statistics. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2018, 8, e1236.	4.6	122
21	Detecting Deviating Data Cells. Technometrics, 2018, 60, 135-145.	1.3	68
22	Multivariate and functional classification using depth and distance. Advances in Data Analysis and Classification, 2017, 11, 445-466.	0.9	33
23	Dissimilar Symmetric Word Pairs in the Human Genome. Advances in Intelligent Systems and Computing, 2017, , 248-256.	0.5	0
24	Rejoinder to "multivariate functional outlier detection". Statistical Methods and Applications, 2015, 24, 269-277.	0.7	5
25	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
26	Multivariate functional outlier detection. Statistical Methods and Applications, 2015, 24, 177-202.	0.7	121
27	The DetS and DetMM estimators for multivariate location and scatter. Computational Statistics and Data Analysis, 2015, 81, 64-75.	0.7	25
28	Shape bias of robust covariance estimators: an empirical study. Statistical Papers, 2014, 55, 15-28.	0.7	8
29	Robust multilevel simultaneous component analysis. Chemometrics and Intelligent Laboratory Systems, 2013, 129, 33-39.	1.8	10
30	High-Breakdown Estimators of Multivariate Location and Scatter. , 2013, , 49-66.		15
31	A Deterministic Algorithm for Robust Location and Scatter. Journal of Computational and Graphical Statistics, 2012, 21, 618-637.	0.9	102
32	Robust statistics for outlier detection. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2011, 1, 73-79.	4.6	434
33	Special Issue on Robust Methods for Classification and Data Analysis. Advances in Data Analysis and Classification, 2010, 4, 85-87.	0.9	0
34	DetMCD in a Calibration Framework. , 2010, , 589-596.		1
35	Minimum volume ellipsoid. Wiley Interdisciplinary Reviews: Computational Statistics, 2009, 1, 71-82.	2.1	127
36	Robust PCA for skewed data and its outlier map. Computational Statistics and Data Analysis, 2009, 53, 2264-2274.	0.7	89

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37	Efficient Algorithms for Maximum Regression Depth. <i>Discrete and Computational Geometry</i> , 2008, 39, 656-677.	0.4	2
38	High-Breakdown Robust Multivariate Methods. <i>Statistical Science</i> , 2008, 23, .	1.6	222
39	Robustness and Outlier Detection in Chemometrics. <i>Critical Reviews in Analytical Chemistry</i> , 2006, 36, 221-242.	1.8	116
40	Computing LTS Regression for Large Data Sets. <i>Data Mining and Knowledge Discovery</i> , 2006, 12, 29-45.	2.4	415
41	Multivariate Outlier Detection and Robustness. <i>Handbook of Statistics</i> , 2005, 24, 263-302.	0.4	22
42	ROBPCA: A New Approach to Robust Principal Component Analysis. <i>Technometrics</i> , 2005, 47, 64-79.	1.3	770
43	Characterizing angular symmetry and regression symmetry. <i>Journal of Statistical Planning and Inference</i> , 2004, 122, 161-173.	0.4	19
44	Robust Multivariate Regression. <i>Technometrics</i> , 2004, 46, 293-305.	1.3	119
45	Efficient computation of location depth contours by methods of computational geometry. <i>Statistics and Computing</i> , 2003, 13, 153-162.	0.8	30
46	Robust factor analysis. <i>Journal of Multivariate Analysis</i> , 2003, 84, 145-172.	0.5	138
47	Robustness against separation and outliers in logistic regression. <i>Computational Statistics and Data Analysis</i> , 2003, 43, 315-332.	0.7	61
48	The Deepest Regression Method. <i>Journal of Multivariate Analysis</i> , 2002, 81, 138-166.	0.5	33
49	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
50	Location adjustment for the minimum volume ellipsoid estimator. <i>Statistics and Computing</i> , 2002, 12, 191-200.	0.8	20
51	Econometric applications of high-breakdown robust regression techniques. <i>Economics Letters</i> , 2001, 71, 1-8.	0.9	107
52	Measuring overlap in binary regression. <i>Computational Statistics and Data Analysis</i> , 2001, 37, 65-75.	0.7	43
53	Similarities Between Location Depth and Regression Depth. , 2001, , 159-172.		2
54	The Competitive Advantage of Seaports. <i>Maritime Economics and Logistics</i> , 2000, 2, 69-82.	0.8	31

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55	Robustness of Deepest Regression. <i>Journal of Multivariate Analysis</i> , 2000, 73, 82-106.	0.5	34
56	High-dimensional computation of the deepest location. <i>Computational Statistics and Data Analysis</i> , 2000, 34, 415-426.	0.7	58
57	An algorithm for deepest multiple regression. , 2000, , 139-150.		1
58	Halfspace Depth and Regression Depth Characterize the Empirical Distribution. <i>Journal of Multivariate Analysis</i> , 1999, 69, 135-153.	0.5	47
59	A Fast Algorithm for the Minimum Covariance Determinant Estimator. <i>Technometrics</i> , 1999, 41, 212-223.	1.3	1,719
60	Regression Depth: Rejoinder. <i>Journal of the American Statistical Association</i> , 1999, 94, 419.	1.8	10
61	The Bagplot: A Bivariate Boxplot. <i>American Statistician</i> , 1999, 53, 382-387.	0.9	165
62	Regression Depth. <i>Journal of the American Statistical Association</i> , 1999, 94, 388-402.	1.8	205
63	The Bagplot: A Bivariate Boxplot. <i>American Statistician</i> , 1999, 53, 382.	0.9	304
64	Computing location depth and regression depth in higher dimensions. <i>Statistics and Computing</i> , 1998, 8, 193-203.	0.8	138
65	The Catline for Deep Regression. <i>Journal of Multivariate Analysis</i> , 1998, 66, 270-296.	0.5	22
66	Recent developments in PROGRESS. <i>Lecture Notes-monograph Series / Institute of Mathematical Statistics</i> , 1997, , 201-214.	1.0	55
67	Robust regression with both continuous and binary regressors. <i>Journal of Statistical Planning and Inference</i> , 1997, 57, 153-163.	0.4	73
68	Algorithm AS 307: Bivariate Location Depth. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 1996, 45, 516.	0.5	102
69	Computing depth contours of bivariate point clouds. <i>Computational Statistics and Data Analysis</i> , 1996, 23, 153-168.	0.7	185
70	Generalized S-Estimators. <i>Journal of the American Statistical Association</i> , 1994, 89, 1271-1281.	1.8	93
71	The bias of k-step M-estimators. <i>Statistics and Probability Letters</i> , 1994, 20, 411-420.	0.4	32
72	Alternatives to the Median Absolute Deviation. <i>Journal of the American Statistical Association</i> , 1993, 88, 1273-1283.	1.8	1,413

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73	A class of high-breakdown scale estimators based on subranges. Communications in Statistics - Theory and Methods, 1992, 21, 1935-1951.	0.6	52
74	Breakdown Points of Affine Equivariant Estimators of Multivariate Location and Covariance Matrices. Annals of Statistics, 1991, 19, 229.	1.4	324
75	Robust Distances: Simulations and Cutoff Values. The IMA Volumes in Mathematics and Its Applications, 1991, , 195-203.	0.5	44
76	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
77	Unmasking Multivariate Outliers and Leverage Points. Journal of the American Statistical Association, 1990, 85, 633-639.	1.8	1,044
78	Robust Regression and Outlier Detection. Wiley Series in Probability and Statistics, 1987, , .	0.0	3,479
79	Silhouettes: A graphical aid to the interpretation and validation of cluster analysis. Journal of Computational and Applied Mathematics, 1987, 20, 53-65.	1.1	12,746
80	CLUSTERING LARGE DATA SETS. , 1986, , 425-437.		31
81	Multivariate Estimation with High Breakdown Point. , 1985, , 283-297.		600
82	Least Median of Squares Regression. Journal of the American Statistical Association, 1984, 79, 871-880.	1.8	2,654
83	Most robust M-estimators in the infinitesimal sense. Zeitschrift für Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1982, 61, 541-551.	0.8	12
84	A new infinitesimal approach to robust estimation. Zeitschrift für Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1981, 56, 127-132.	0.8	36
85	Influence curves of general statistics. Journal of Computational and Applied Mathematics, 1981, 7, 161-166.	1.1	34
86	The Change-of-Variance Curve and Optimal Redescending $M$ -Estimators. Journal of the American Statistical Association, 1981, 76, 643-648.	1.8	37
87	The Minimum Regularized Covariance Determinant Estimator. SSRN Electronic Journal, 0, , .	0.4	9
88	Transforming variables to central normality. Machine Learning, 0, , 1.	3.4	23
89	A Fast Algorithm for the Minimum Covariance Determinant Estimator. , 0, .		601
90	Least Median of Squares Regression. , 0, .		966

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91	Unmasking Multivariate Outliers and Leverage Points. , 0, .		338
92	Generalized S-Estimators. , 0, .		25
93	Alternatives to the Median Absolute Deviation. , 0, .		1,090
94	Regression Depth. , 0, .		58