

Peter J Rousseeuw

List of Articles by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Multivariate Singular Spectrum Analysis by Robust Diagonalwise Low-Rank Approximation. Journal of Computational and Graphical Statistics, 2025, 34, 360-373.	1.8	6
2	Challenges of cellwise outliers. Econometrics and Statistics, 2024, 38, 6-25.	1.1	20
3	Rejoinder to the comment of Agostinelli. Econometrics and Statistics, 2024, 38, 29-30.	1.1	1
4	An Alternate History for Machine Learning?. , 2024, 6, .		0
5	Fast linear model trees by PILOT. Machine Learning, 2024, 113, 6561-6610.	1.8	11
6	Robust discriminant analysis. Wiley Interdisciplinary Reviews: Computational Statistics, 2024, 16, .	3.9	4
7	Analyzing cellwise weighted data. Econometrics and Statistics, 2023, 38, 31-41.	1.1	4
8	Class Maps for Visualizing Classification Results. Technometrics, 2022, 64, 151-165.	2.8	9
9	Silhouettes and Quasi Residual Plots for Neural Nets and Tree-based Classifiers. Journal of Computational and Graphical Statistics, 2022, 31, 1332-1343.	1.8	9
10	Real-time discriminant analysis in the presence of label and measurement noise. Chemometrics and Intelligent Laboratory Systems, 2021, 208, 104197.	3.6	13
11	Fast Robust Correlation for High-Dimensional Data. Technometrics, 2021, 63, 184-198.	2.8	50
12	Transforming variables to central normality. Machine Learning, 2021, 113, 4953-4975.	1.8	52
13	Outlier detection in non-elliptical data by kernel MRCD. Statistics and Computing, 2021, 31, .	1.1	22
14	Fast and eager k-medoids clustering: $O(k)$ runtime improvement of the PAM, CLARA, and CLARANS algorithms. Information Systems, 2021, 101, 101804.	2.5	166
15	Real-time outlier detection for large datasets by RT-DetMCD. Chemometrics and Intelligent Laboratory Systems, 2020, 199, 103957.	3.6	14
16	Robust Monitoring of Time Series with Application to Fraud Detection. Econometrics and Statistics, 2019, 9, 108-121.	1.1	28
17	MacroPCA: An All-in-One PCA Method Allowing for Missing Values as Well as Cellwise and Rowwise Outliers. Technometrics, 2019, 61, 459-473.	2.8	45
18	Robust identification of target genes and outliers in triple-negative breast cancer data. Statistical Methods in Medical Research, 2019, 28, 3042-3056.	1.7	23

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19	A generalized spatial sign covariance matrix. <i>Journal of Multivariate Analysis</i> , 2019, 171, 94-111.	1.6	16
20	The minimum regularized covariance determinant estimator. <i>Statistics and Computing</i> , 2019, 30, 113-128.	1.1	73
21	Minimum covariance determinant and extensions. <i>Wiley Interdisciplinary Reviews: Computational Statistics</i> , 2018, 10, .	3.9	175
22	A Measure of Directional Outlyingness With Applications to Image Data and Video. <i>Journal of Computational and Graphical Statistics</i> , 2018, 27, 345-359.	1.8	43
23	Anomaly detection by robust statistics. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2018, 8, .	7.6	206
24	Detecting Deviating Data Cells. <i>Technometrics</i> , 2018, 60, 135-145.	2.8	95
25	Comparing Reverse Complementary Genomic Words Based on Their Distance Distributions and Frequencies. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2017, 10, 1-11.	2.9	1
26	Multivariate and functional classification using depth and distance. <i>Advances in Data Analysis and Classification</i> , 2016, 11, 445-466.	1.1	41
27	Rejoinder to "multivariate functional outlier detection". <i>Statistical Methods and Applications</i> , 2015, 24, 269-277.	0.6	5
28	Multivariate functional outlier detection. <i>Statistical Methods and Applications</i> , 2015, 24, 177-202.	0.6	144
29	The DetS and DetMM estimators for multivariate location and scatter. <i>Computational Statistics and Data Analysis</i> , 2015, 81, 64-75.	1.4	24
30	Robust multilevel simultaneous component analysis. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2013, 129, 33-39.	3.6	10
31	Shape bias of robust covariance estimators: an empirical study. <i>Statistical Papers</i> , 2013, 55, 15-28.	0.9	8
32	A Deterministic Algorithm for Robust Location and Scatter. <i>Journal of Computational and Graphical Statistics</i> , 2012, 21, 618-637.	1.8	128
33	Robust statistics for outlier detection. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2011, 1, 73-79.	7.6	600
34	Minimum volume ellipsoid. <i>Wiley Interdisciplinary Reviews: Computational Statistics</i> , 2009, 1, 71-82.	3.9	157
35	Robust PCA for skewed data and its outlier map. <i>Computational Statistics and Data Analysis</i> , 2009, 53, 2264-2274.	1.4	102
36	High-Breakdown Robust Multivariate Methods. <i>Statistical Science</i> , 2008, 23, .	1.9	238

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37	Efficient Algorithms for Maximum Regression Depth. <i>Discrete and Computational Geometry</i> , 2007, 39, 656-677.	0.4	2
38	Computing LTS Regression for Large Data Sets. <i>Data Mining and Knowledge Discovery</i> , 2006, 12, 29-45.	2.7	468
39	Multivariate Outlier Detection and Robustness. <i>Handbook of Statistics</i> , 2005, , 263-302.	0.2	24
40	ROBPCA: A New Approach to Robust Principal Component Analysis. <i>Technometrics</i> , 2005, 47, 64-79.	2.8	899
41	Comment. <i>Journal of the American Statistical Association</i> , 2004, 99, 966-969.	3.4	0
42	Characterizing angular symmetry and regression symmetry. <i>Journal of Statistical Planning and Inference</i> , 2004, 122, 161-173.	0.8	21
43	Robust Multivariate Regression. <i>Technometrics</i> , 2004, 46, 293-305.	2.8	128
44	Title is missing!. <i>Statistics and Computing</i> , 2003, 13, 153-162.	1.1	32
45	Robust factor analysis. <i>Journal of Multivariate Analysis</i> , 2003, 84, 145-172.	1.6	148
46	Robustness against separation and outliers in logistic regression. <i>Computational Statistics and Data Analysis</i> , 2003, 43, 315-332.	1.4	65
47	The Deepest Regression Method. <i>Journal of Multivariate Analysis</i> , 2002, 81, 138-166.	1.6	33
48	Robust estimation in very small samples. <i>Computational Statistics and Data Analysis</i> , 2002, 40, 741-758.	1.4	123
49	A fast method for robust principal components with applications to chemometrics. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2002, 60, 101-111.	3.6	207
50	Title is missing!. <i>Statistics and Computing</i> , 2002, 12, 191-200.	1.1	21
51	Econometric applications of high-breakdown robust regression techniques. <i>Economics Letters</i> , 2001, 71, 1-8.	1.6	115
52	Robust estimation of the conditional median function at elliptical models. <i>Statistics and Probability Letters</i> , 2001, 51, 361-368.	0.6	12
53	Measuring overlap in binary regression. <i>Computational Statistics and Data Analysis</i> , 2001, 37, 65-75.	1.4	46
54	The Competitive Advantage of Seaports. <i>Maritime Economics and Logistics</i> , 2000, 2, 69-82.	1.1	34

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55	Robustness of Deepest Regression. <i>Journal of Multivariate Analysis</i> , 2000, 73, 82-106.	1.6	34
56	High-dimensional computation of the deepest location. <i>Computational Statistics and Data Analysis</i> , 2000, 34, 415-426.	1.4	61
57	Comparative analysis of more than 3000 sequences reveals the existence of two pseudoknots in area V4 of eukaryotic small subunit ribosomal RNA. <i>Nucleic Acids Research</i> , 2000, 28, 4698-4708.	15.5	197
58	Displaying a clustering with CLUSPLOT. <i>Computational Statistics and Data Analysis</i> , 1999, 30, 381-392.	1.4	91
59	Halfspace Depth and Regression Depth Characterize the Empirical Distribution. <i>Journal of Multivariate Analysis</i> , 1999, 69, 135-153.	1.6	51
60	A Fast Algorithm for the Minimum Covariance Determinant Estimator. <i>Technometrics</i> , 1999, 41, 212-223.	2.8	1,983
61	Regression Depth: Rejoinder. <i>Journal of the American Statistical Association</i> , 1999, 94, 419.	3.4	11
62	Rejoinder. <i>Journal of the American Statistical Association</i> , 1999, 94, 419-433.	3.4	12
63	The Bagplot: A Bivariate Boxplot. <i>American Statistician</i> , 1999, 53, 382-387.	1.3	352
64	Regression Depth. <i>Journal of the American Statistical Association</i> , 1999, 94, 388-402.	3.4	218
65	The Bagplot: A Bivariate Boxplot. <i>American Statistician</i> , 1999, 53, 382.	1.3	306
66	A Fast Algorithm for the Minimum Covariance Determinant Estimator. <i>Technometrics</i> , 1999, 41, 212.	2.8	665
67	Regression Depth. <i>Journal of the American Statistical Association</i> , 1999, 94, 388.	3.4	60
68	The depth function of a population distribution. <i>Metrika</i> , 1999, 49, 213-244.	0.7	83
69	Title is missing!. <i>Statistics and Computing</i> , 1998, 8, 193-203.	1.1	143
70	The Catline for Deep Regression. <i>Journal of Multivariate Analysis</i> , 1998, 66, 270-296.	1.6	22
71	The two-factorial symptom structure of post-traumatic stress disorder: depressionâ€“avoidance and arousalâ€“anxiety. <i>Psychiatry Research</i> , 1998, 81, 195-210.	3.1	43
72	Epidemiologic and phenomenological aspects of post-traumatic stress disorder: DSM-III-R diagnosis and diagnostic criteria not validated. <i>Psychiatry Research</i> , 1998, 81, 179-193.	3.1	55

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73	5 Introduction to positive-breakdown methods. Handbook of Statistics, 1997, , 101-121.	0.2	30
74	Robust regression with both continuous and binary regressors. Journal of Statistical Planning and Inference, 1997, 57, 153-163.	0.8	79
75	Integrating robust clustering techniques in S-PLUS. Computational Statistics and Data Analysis, 1997, 26, 17-37.	1.4	145
76	Algorithm AS 307: Bivariate Location Depth. Journal of the Royal Statistical Society Series C: Applied Statistics, 1996, 45, 516.	1.0	106
77	Regression-free and robust estimation of scale for bivariate data. Computational Statistics and Data Analysis, 1996, 21, 67-85.	1.4	16
78	Positive-breakdown regression by minimizing nested scale estimators. Journal of Statistical Planning and Inference, 1996, 53, 197-235.	0.8	13
79	Computing depth contours of bivariate point clouds. Computational Statistics and Data Analysis, 1996, 23, 153-168.	1.4	193
80	The change-of-variance function of M-estimators of scale under general contamination. Journal of Computational and Applied Mathematics, 1995, 64, 69-80.	2.3	12
81	Generalized S-Estimators. Journal of the American Statistical Association, 1994, 89, 1271-1281.	3.4	99
82	Unconventional features of positive-breakdown estimators. Statistics and Probability Letters, 1994, 19, 417-431.	0.6	23
83	The bias of k-step M-estimators. Statistics and Probability Letters, 1994, 20, 411-420.	0.6	34
84	Robust regression with a distributed intercept using least median of squares. Computational Statistics and Data Analysis, 1994, 17, 65-76.	1.4	26
85	Asymptotics of the Repeated Median Slope Estimator. Annals of Statistics, 1994, 22, .	2.7	11
86	Generalized S-Estimators. Journal of the American Statistical Association, 1994, 89, 1271.	3.4	26
87	A resampling design for computing high-breakdown regression. Statistics and Probability Letters, 1993, 18, 125-128.	0.6	21
88	Alternatives to the Median Absolute Deviation. Journal of the American Statistical Association, 1993, 88, 1273-1283.	3.4	1,726
89	Transformation of non positive semidefinite correlation matrices. Communications in Statistics - Theory and Methods, 1993, 22, 965-984.	1.3	106
90	Alternatives to the Median Absolute Deviation. Journal of the American Statistical Association, 1993, 88, 1273.	3.4	1,485

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91	A class of high-breakdown scale estimators based on subranges. Communications in Statistics - Theory and Methods, 1992, 21, 1935-1951.	1.3	56
92	A comparison of some quick algorithms for robust regression. Computational Statistics and Data Analysis, 1992, 14, 107-116.	1.4	19
93	LMSMVE: A program for least median of squares regression and robust distances. Journal of Biomedical Informatics, 1992, 25, 384-391.	0.5	15
94	Tutorial to robust statistics. Journal of Chemometrics, 1991, 5, 1-20.	2.0	115
95	Finding Groups in Data: An Introduction to Cluster Analysis.. Journal of the American Statistical Association, 1991, 86, 830.	3.4	37
96	Breakdown Points of Affine Equivariant Estimators of Multivariate Location and Covariance Matrices. Annals of Statistics, 1991, 19, .	2.7	353
97	Software for finding groups in data. TrAC - Trends in Analytical Chemistry, 1991, 10, 175-176.	11.1	1
98	A diagnostic plot for regression outliers and leverage points. Computational Statistics and Data Analysis, 1991, 11, 127-129.	1.4	10
99	Rejoinder. Journal of the American Statistical Association, 1990, 85, 648-651.	3.4	11
100	Unmasking Multivariate Outliers and Leverage Points: Rejoinder. Journal of the American Statistical Association, 1990, 85, 648.	3.4	19
101	Unmasking Multivariate Outliers and Leverage Points. Journal of the American Statistical Association, 1990, 85, 633-639.	3.4	1,108
102	Unmasking Multivariate Outliers and Leverage Points. Journal of the American Statistical Association, 1990, 85, 633.	3.4	345
103	Robust Regression and Outlier Detection.. Journal of the American Statistical Association, 1989, 84, 617.	3.4	2
104	Robust Statistics.. Journal of the American Statistical Association, 1989, 84, 624.	3.4	2
105	Robust Regression and Outlier Detection. Technometrics, 1989, 31, 260.	2.8	1,339
106	Robust Regression & Outlier Detection. Journal of Educational Statistics, 1988, 13, 358.	0.9	44
107	Silhouettes: A graphical aid to the interpretation and validation of cluster analysis. Journal of Computational and Applied Mathematics, 1987, 20, 53-65.	2.3	17,879
108	Least median of squares: a robust method for outlier and model error detection in regression and calibration. Analytica Chimica Acta, 1986, 187, 171-179.	5.7	154

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109	Applying robust regression techniques to institutional data. Research in Higher Education, 1986, 25, 277-297.	1.7	1
110	Change-of-variance sensitivities in regression analysis. Zeitschrift F¼r Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1985, 68, 503-519.	0.7	21
111	Least Median of Squares Regression. Journal of the American Statistical Association, 1984, 79, 871-880.	3.4	2,881
112	Least Median of Squares Regression. Journal of the American Statistical Association, 1984, 79, 871.	3.4	975
113	Optimal search paths for random variables. Journal of Computational and Applied Mathematics, 1983, 9, 279-286.	2.3	22
114	Most robust M-estimators in the infinitesimal sense. Zeitschrift F¼r Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1982, 61, 541-551.	0.7	12
115	The Change-of-Variance Curve and Optimal Redescending M-Estimators. Journal of the American Statistical Association, 1981, 76, 643.	3.4	32
116	A new infinitesimal approach to robust estimation. Zeitschrift F¼r Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1981, 56, 127-132.	0.7	37
117	Influence curves of general statistics. Journal of Computational and Applied Mathematics, 1981, 7, 161-166.	2.3	36
118	The Change-of-Variance Curve and Optimal Redescending M-Estimators. Journal of the American Statistical Association, 1981, 76, 643-648.	3.4	40
119	Title is missing!. , 0, .		0
120	Title is missing!. , 0, .		0
121	Rejoinder. International Statistical Review, 0, 94, 53-60.	1.9	0
122	Robust Distance Covariance 1. International Statistical Review, 0, 94, 1-25.	1.9	1
123	Robust Principal Components by Casewise and Cellwise Weighting. Technometrics, 0, , 1-25.	2.8	0
124	Independent component analysis by robust distance correlation. Advances in Data Analysis and Classification, 0, , .	1.1	1