Stefan Van Aelst

List of Publications by Year
in descending order

86 papers	3,124 citations	172443 29 h-index	168376 53 g-index
98 all docs	98 docs citations	98 times ranked	3243 citing authors

#	Article	IF	Citations
1	Melanoma addiction to the long non-coding RNA SAMMSON. Nature, 2016, 531, 518-522.	27.8	488
2	High-Breakdown Robust Multivariate Methods. Statistical Science, 2008, 23, .	2.8	222
3	Robust estimation of Cronbach's alpha. Journal of Multivariate Analysis, 2006, 97, 1660-1674.	1.0	179
4	Small sample corrections for LTS and MCD. Metrika, 2002, 55, 111-123.	0.8	132
5	Robust Linear Model Selection Based on Least Angle Regression. Journal of the American Statistical Association, 2007, 102, 1289-1299.	3.1	130
6	Minimum volume ellipsoid. Wiley Interdisciplinary Reviews: Computational Statistics, 2009, 1, 71-82.	3.9	127
7	Propagation of outliers in multivariate data. Annals of Statistics, 2009, 37, .	2.6	120
8	Robust Multivariate Regression. Technometrics, 2004, 46, 293-305.	1.9	119
9	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
10	The multivariate least-trimmed squares estimator. Journal of Multivariate Analysis, 2008, 99, 311-338.	1.0	104
11	Fast and robust bootstrap. Statistical Methods and Applications, 2008, 17, 41-71.	1.2	67
12	Assessing the Functional Polycentricity of the Mega-City-Region of Central Belgium Based on Advanced Producer Service Transaction Links. Regional Studies, 2014, 48, 1939-1953.	4.4	67
13	The median of a random fuzzy number. The 1-norm distance approach. Fuzzy Sets and Systems, 2012, 200, 99-115.	2.7	62
14	Linear grouping using orthogonal regression. Computational Statistics and Data Analysis, 2006, 50, 1287-1312.	1.2	56
15	Tree-based prediction on incomplete data using imputation or surrogate decisions. Information Sciences, 2015, 311, 163-181.	6.9	56
16	A robust Hotelling test. Metrika, 2002, 55, 125-138.	0.8	52
17	Enhanced analysis of real-time PCR data by using a variable efficiency model: FPK-PCR. Nucleic Acids Research, 2012, 40, e10-e10.	14.5	49
18	Building a robust linear model with forward selection and stepwise procedures. Computational Statistics and Data Analysis, 2007, 52, 239-248.	1.2	45

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19	Fast and robust bootstrap for LTS. Computational Statistics and Data Analysis, 2005, 48, 703-715.	1.2	43
20	A Stahelâ€“Donoho estimator based on huberized outlyingness. Computational Statistics and Data Analysis, 2012, 56, 531-542.	1.2	43
21	Lack of fluorophotometric evidence of aqueousâ€“vitreous barrier disruption after posterior capsulorhexis. Journal of Cataract and Refractive Surgery, 2003, 29, 2330-2338.	1.5	42
22	Robust linear clustering. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2009, 71, 301-318.	2.2	41
23	Diagnostic Plots for Robust Multivariate Methods. Journal of Computational and Graphical Statistics, 2004, 13, 310-329.	1.7	38
24	Mathematical Inference on Helminth Egg Counts in Stool and Its Applications in Mass Drug Administration Programmes to Control Soil-Transmitted Helminthiasis in Public Health. Advances in Parasitology, 2015, 87, 193-247.	3.2	36
25	Robust model selection using fast and robust bootstrap. Computational Statistics and Data Analysis, 2008, 52, 5121-5135.	1.2	35
26	Robustness of Deepest Regression. Journal of Multivariate Analysis, 2000, 73, 82-106.	1.0	34
27	Stahel-Donoho estimators with cellwise weights. Journal of Statistical Computation and Simulation, 2011, 81, 1-27.	1.2	34
28	The Deepest Regression Method. Journal of Multivariate Analysis, 2002, 81, 138-166.	1.0	33
29	Follicle survival and growth to antral stages in short-term murine ovarian cortical transplants after Cryologic solid surface vitrification or slow-rate freezing. Cryobiology, 2008, 57, 163-169.	0.7	31
30	The minimum weighted covariance determinant estimator. Metrika, 2009, 70, 177-204.	0.8	28
31	Fast robust estimation of prediction error based on resampling. Computational Statistics and Data Analysis, 2010, 54, 3121-3130.	1.2	28
32	Robust and Efficient One-Way MANOVA Tests. Journal of the American Statistical Association, 2011, 106, 706-718.	3.1	28
33	A statistical basis for harmonization of thyroid stimulating hormone immunoassays using a robust factor analysis model. Clinical Chemistry and Laboratory Medicine, 2014, 52, 965-72.	2.3	26
34	Quantification and Viability Assessment of Isolated Bovine Primordial and Primary Ovarian Follicles Retrieved Through a Standardized Biopsy Pickâ€Up Procedure. Reproduction in Domestic Animals, 2008, 43, 360-366.	1.4	25
35	Multivariate Outlier Detection and Robustness. Handbook of Statistics, 2005, 24, 263-302.	0.6	22
36	Robust functional regression based on principal components. Journal of Multivariate Analysis, 2019, 173, 393-415.	1.0	19

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37	M-Estimates of Location for the Robust Central Tendency of Fuzzy Data. IEEE Transactions on Fuzzy Systems, 2016, 24, 945-956.	9.8	17
38	Xenotransplantation by injection of a suspension of isolated preantral ovarian follicles and stroma cells under the kidney capsule of nude mice. Fertility and Sterility, 2010, 94, 708-714.	1.0	16
39	Using deepest regression method for optimization of fluidized bed granulation on semi-full scale. International Journal of Pharmaceutics, 2003, 258, 85-94.	5.2	15
40	Multivariate generalized S-estimators. Journal of Multivariate Analysis, 2009, 100, 876-887.	1.0	15
41	Harmonization of immunoassays to the all-procedure trimmed mean â€“ proof of concept by use of data from the insulin standardization project. Clinical Chemistry and Laboratory Medicine, 2013, 51, e103-5.	2.3	15
42	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>Ï„</mml:mi></mml:math>-estimates. Computational Statistics and Data Analysis, 2016, 93, 436-455.	1.2	15
43	M-estimators of location for functional data. Bernoulli, 2018, 24, .	1.3	15
44	Robust inference for seemingly unrelated regression models. Journal of Multivariate Analysis, 2018, 167, 212-224.	1.0	15
45	Bounded influence regression using high breakdown scatter matrices. Annals of the Institute of Statistical Mathematics, 2003, 55, 265-285.	0.8	13
46	A parameterized metric between fuzzy numbers and its parameter interpretation. Fuzzy Sets and Systems, 2014, 245, 101-115.	2.7	13
47	Robust estimation of the conditional median function at elliptical models. Statistics and Probability Letters, 2001, 51, 361-368.	0.7	12
48	An L1-type estimator of multivariate location and shape. Statistical Methods and Applications, 2007, 15, 381-393.	1.2	12
49	Stahelâ€“Donoho estimation for high-dimensional data. International Journal of Computer Mathematics, 2016, 93, 628-639.	1.8	12
50	Robust and efficient estimation of the residual scale in linear regression. Journal of Multivariate Analysis, 2013, 116, 278-296.	1.0	11
51	Regression Depth: Rejoinder. Journal of the American Statistical Association, 1999, 94, 419.	3.1	10
52	Simulation of between Repeat Variability in Real Time PCR Reactions. PLoS ONE, 2012, 7, e47112.	2.5	10
53	Advantages of M-estimators of location for fuzzy numbers based on Tukey's biweight loss function. International Journal of Approximate Reasoning, 2018, 93, 219-237.	3.3	9
54	Fast and Robust Bootstrap for Multivariate Inference: TheRPackageFRB. Journal of Statistical Software, 2013, 53, .	3.7	8

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55	Fast computation of robust subspace estimators. Computational Statistics and Data Analysis, 2019, 134, 171-185.	1.2	8
56	Robust bootstrap procedures for the chain-ladder method. Scandinavian Actuarial Journal, 2017, 2017, 870-897.	1.7	7
57	Deepest regression in analytical chemistry. Analytica Chimica Acta, 2001, 446, 243-254.	5.4	6
58	A Robust General Multivariate Chain Ladder Method. Risks, 2018, 6, 108.	2.4	6
59	Empirical analysis of the maximum asymptotic bias of location estimators for fuzzy number-valued data. International Journal of Approximate Reasoning, 2019, 113, 1-13.	3.3	6
60	M-type penalized splines with auxiliary scale estimation. Journal of Statistical Planning and Inference, 2021, 212, 97-113.	0.6	6
61	On the consistency of a spatial-type interval-valued median for random intervals. Statistics and Probability Letters, 2015, 100, 130-136.	0.7	5
62	Robust variable screening for regression using factor profiling. Statistical Analysis and Data Mining, 2019, 12, 70-87.	2.8	5
63	M-estimators and trimmed means: from Hilbert-valued to fuzzy set-valued data. Advances in Data Analysis and Classification, 2021, 15, 267-288.	1.4	5
64	Robust Principal Component Analysis Based on Pairwise Correlation Estimators. , 2010, , 573-580.		5
65	Outlierâ€Robust Bayesian Multinomial Choice Modeling. Journal of Applied Econometrics, 2016, 31, 1445-1466.	2.3	4
66	RNA biomarkers from proximal liquid biopsy for diagnosis of ovarian cancer. Neoplasia, 2022, 24, 155-164.	5.3	4
67	Robust Bayesian seemingly unrelated regression model. Computational Statistics, 2019, 34, 1135-1157.	1.5	3
68	Comparing the Medians of a Random Interval Defined by Means of Two Different L 1 Metrics. Studies in Fuzziness and Soft Computing, 2013, , 75-86.	0.8	3
69	Inference for robust canonical variate analysis. Advances in Data Analysis and Classification, 2010, 4, 181-197.	1.4	2
70	Comparing the Representativeness of the 1-norm Median for Likert and Free-response Fuzzy Scales. Studies in Fuzziness and Soft Computing, 2013, , 87-98.	0.8	2
71	A spatial-type interval-valued median for random intervals. Statistics, 2018, 52, 479-502.	0.6	2
72	Sparse Principal Component Analysis Based on Least Trimmed Squares. Technometrics, 2020, 62, 473-485.	1.9	2

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73	Robust penalized spline estimation with difference penalties. Econometrics and Statistics, 2024, 29, 169-188.	0.8	2
74	Similarities Between Location Depth and Regression Depth. , 2001, , 159-172.		2
75	Empirical Comparison of the Performance of Location Estimates of Fuzzy Number-Valued Data. Advances in Intelligent Systems and Computing, 2019, , 191-199.	0.6	2
76	Outlier Detection and Robust Variable Selection for Least Angle Regression. Lecture Notes in Computer Science, 2014, , 512-522.	1.3	1
77	Robust Bootstrap for S-estimators of Multivariate Regression. , 2002, , 201-212.		1
78	An algorithm for deepest multiple regression. , 2000, , 139-150.		1
79	A robust linear grouping algorithm. , 2006, , 43-53.		1
80	Title is missing!. Annals of the Institute of Statistical Mathematics, 2003, 55, 265-285.	0.8	1
81	Robust optimal estimation of location from discretely sampled functional data. Scandinavian Journal of Statistics, 0, , .	1.4	1
82	Comments on: Robust estimation of multivariate location and scatter in the presence of cellwise and casewise contamination. Test, 2015, 24, 478-481.	1.1	0
83	Comments on: Data science, big data and statistics. Test, 2019, 28, 360-362.	1.1	0
84	Outlier robust modeling of survival curves in the presence of potentially time-varying coefficients. Statistical Methods in Medical Research, 2020, 29, 2683-2696.	1.5	0
85	Editorial Founding Issue. , 0, , .		0
86	Analyzing Data with Robust Multivariate Methods and Diagnostic Plots. , 2002, , 165-170.		0