

Davy Paindaveine

List of Publications by Year in descending order

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59
papers

1,375
citations

361413

20
h-index

377865

34
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66
all docs

66
docs citations

66
times ranked

429
citing authors

#	ARTICLE	IF	CITATIONS
1	Multivariate quantiles and multiple-output regression quantiles: From L1 optimization to halfspace depth. <i>Annals of Statistics</i> , 2010, 38, .	2.6	178
2	Optimal tests for multivariate location based on interdirections and pseudo-Mahalanobis ranks. <i>Annals of Statistics</i> , 2002, 30, 1103.	2.6	80
3	Semiparametrically efficient rank-based inference for shape. I. optimal rank-based tests for sphericity. <i>Annals of Statistics</i> , 2006, 34, 2707.	2.6	78
4	A canonical definition of shape. <i>Statistics and Probability Letters</i> , 2008, 78, 2240-2247.	0.7	70
5	Semiparametrically efficient rank-based inference for shape. II. Optimal R-estimation of shape. <i>Annals of Statistics</i> , 2006, 34, 2757.	2.6	56
6	Rank-based optimal tests of the adequacy of an elliptic VARMA model. <i>Annals of Statistics</i> , 2004, 32, 2642.	2.6	54
7	Optimal rank-based testing for principal components. <i>Annals of Statistics</i> , 2010, 38, .	2.6	44
8	Computing multiple-output regression quantile regions. <i>Computational Statistics and Data Analysis</i> , 2012, 56, 840-853.	1.2	41
9	Affine-invariant aligned rank tests for the multivariate general linear model with VARMA errors. <i>Journal of Multivariate Analysis</i> , 2005, 93, 122-163.	1.0	37
10	From Depth to Local Depth: A Focus on Centrality. <i>Journal of the American Statistical Association</i> , 2013, 108, 1105-1119.	3.1	35
11	On high-dimensional sign tests. <i>Bernoulli</i> , 2016, 22, .	1.3	35
12	On the singularity of multivariate skew-symmetric models. <i>Journal of Multivariate Analysis</i> , 2010, 101, 1434-1444.	1.0	32
13	On directional multiple-output quantile regression. <i>Journal of Multivariate Analysis</i> , 2011, 102, 193-212.	1.0	32
14	Semiparametrically efficient inference based on signed ranks in symmetric independent component models. <i>Annals of Statistics</i> , 2011, 39, .	2.6	31
15	On Optimal Tests for Rotational Symmetry Against New Classes of Hyperspherical Distributions. <i>Journal of the American Statistical Association</i> , 2020, 115, 1873-1887.	3.1	29
16	Parametric and semiparametric inference for shape: the role of the scale functional. <i>Statistics & Risk Modeling</i> , 2006, 24, 327-350.	0.3	25
17	Optimal rank-based tests for homogeneity of scatter. <i>Annals of Statistics</i> , 2008, 36, .	2.6	25
18	Optimal tests for homogeneity of covariance, scale, and shape. <i>Journal of Multivariate Analysis</i> , 2009, 100, 422-444.	1.0	25

#	ARTICLE	IF	CITATIONS
19	Efficient R-Estimation of Principal and Common Principal Components. Journal of the American Statistical Association, 2014, 109, 1071-1083.	3.1	25
20	Optimal signed-rank tests based on hyperplanes. Journal of Statistical Planning and Inference, 2005, 135, 300-323.	0.6	24
21	Optimal detection of Fechner-asymmetry. Journal of Statistical Planning and Inference, 2008, 138, 2499-2525.	0.6	20
22	Nonparametrically consistent depth-based classifiers. Bernoulli, 2015, 21, .	1.3	19
23	Distance-based depths for directional data. Canadian Journal of Statistics, 2018, 46, 593-609.	0.9	19
24	Multivariate Signed-Rank Tests in Vector Autoregressive Order Identification. Statistical Science, 2004, 19, 697.	2.8	18
25	Le Cam optimal tests for symmetry against Ferreira and Steel's general skewed distributions. Journal of Nonparametric Statistics, 2009, 21, 943-967.	0.9	18
26	Multivariate skewing mechanisms: A unified perspective based on the transformation approach. Statistics and Probability Letters, 2010, 80, 1685-1694.	0.7	18
27	Computing multiple-output regression quantile regions from projection quantiles. Computational Statistics, 2012, 27, 29-49.	1.5	18
28	Depth-based runs tests for bivariate central symmetry. Annals of the Institute of Statistical Mathematics, 2015, 67, 917-941.	0.8	18
29	Inference on the mode of weak directional signals: A Le Cam perspective on hypothesis testing near singularities. Annals of Statistics, 2017, 45, .	2.6	18
30	Local bilinear multiple-output quantile/depth regression. Bernoulli, 2015, 21, .	1.3	16
31	On Multivariate Runs Tests for Randomness. Journal of the American Statistical Association, 2009, 104, 1525-1538.	3.1	15
32	Testing uniformity on high-dimensional spheres against monotone rotationally symmetric alternatives. Annals of Statistics, 2017, 45, .	2.6	15
33	A Chernoff-Savage result for shape: On the non-admissibility of pseudo-Gaussian methods. Journal of Multivariate Analysis, 2006, 97, 2206-2220.	1.0	14
34	Optimal rank-based tests for Common Principal Components. Bernoulli, 2013, 19, .	1.3	14
35	Signed-rank tests for location in the symmetric independent component model. Journal of Multivariate Analysis, 2009, 100, 821-834.	1.0	13
36	Halfspace depths for scatter, concentration and shape matrices. Annals of Statistics, 2018, 46, .	2.6	13

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37	Multivariate Signed Ranks: Randles' Interdirections or Tyler's Angles?. , 2002, , 271-282.		13
38	Asymptotic linearity of serial and nonserial multivariate signed rank statistics. Journal of Statistical Planning and Inference, 2006, 136, 1-32.	0.6	12
39	On Fisher information matrices and profile log-likelihood functions in generalized skew-elliptical models. Metron, 2010, 68, 235-250.	1.2	12
40	Testing for Common Principal Components under Heterokurticity. Journal of Nonparametric Statistics, 2010, 22, 879-895.	0.9	11
41	A class of optimal tests for symmetry based on local Edgeworth approximations. Bernoulli, 2011, 17, .	1.3	10
42	Conditional quantile estimation through optimal quantization. Journal of Statistical Planning and Inference, 2015, 156, 14-30.	0.6	10
43	A General Method for Constructing Pseudo-Gaussian Tests. Journal of the Japan Statistical Society, 2008, 38, 27-39.	0.1	9
44	Conditional quantile estimation based on optimal quantization: From theory to practice. Computational Statistics and Data Analysis, 2015, 91, 20-39.	1.2	9
45	High-dimensional tests for spherical location and spiked covariance. Journal of Multivariate Analysis, 2015, 139, 79-91.	1.0	8
46	Inference for spherical location under high concentration. Annals of Statistics, 2020, 48, .	2.6	8
47	Inference on the shape of elliptical distributions based on the MCD. Journal of Multivariate Analysis, 2014, 129, 125-144.	1.0	7
48	Optimal Rank-Based Tests for the Location Parameter of a Rotationally Symmetric Distribution on the Hypersphere. , 2015, , 249-269.		7
49	Detecting the direction of a signal on high-dimensional spheres: non-null and Le Cam optimality results. Probability Theory and Related Fields, 2020, 176, 1165-1216.	1.8	6
50	Testing for principal component directions under weak identifiability. Annals of Statistics, 2020, 48, .	2.6	5
51	Affine invariant linear hypotheses for the multivariate general linear model with VARMA error terms. Lecture Notes-monograph Series / Institute of Mathematical Statistics, 2003, , 417-432.	1.0	4
52	Preliminary test estimation for multi-sample principal components. Econometrics and Statistics, 2017, 2, 106-116.	0.8	3
53	Multiple-output quantile regression through optimal quantization. Scandinavian Journal of Statistics, 2020, 47, 250-278.	1.4	3
54	Preliminary test estimation in uniformly locally asymptotically normal models. Scandinavian Journal of Statistics, 2021, 48, 689-707.	1.4	2

#	ARTICLE	IF	CITATIONS
55	Tests of Concentration for Low-Dimensional and High-Dimensional Directional Data. Contributions To Statistics, 2017, , 209-227.	0.2	2
56	Sign tests for weak principal directions. Bernoulli, 2020, 26, .	1.3	2
57	Discussion of "Multivariate Functional Outlier Detection" by Mia Hubert, Peter Rousseeuw and Pieter Segaert. Statistical Methods and Applications, 2015, 24, 223-231.	1.2	1
58	Preliminary Multiple-Test Estimation, With Applications to k-Sample Covariance Estimation. Journal of the American Statistical Association, 0, , 1-12.	3.1	0
59	Testing uniformity on high-dimensional spheres: The non-null behaviour of the Bingham test. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2022, 58, .	1.1	0