Hsin-Cheng Huang

List of Publications by Year
in descending order

46 papers	1,635 citations	361045 20 h-index	315357 38 g-index
48 all docs	48 docs citations	48 times ranked	1229 citing authors

#	Article	IF	Citations
1	Spatially varying coefficient models using reduced-rank thin-plate splines. Spatial Statistics, 2022, 51, 100654.	0.9	2
2	Inference of random effects for linear mixed-effects models with a fixed number of clusters. Annals of the Institute of Statistical Mathematics, 2022, 74, 1143-1161.	0.5	2
3	Testing Independence Between Two Spatial Random Fields. Journal of Agricultural, Biological, and Environmental Statistics, 2021, 26, 161-179.	0.7	1
4	Vector Autoregressive Models with Spatially Structured Coefficients for Time Series on a Spatial Grid. Journal of Agricultural, Biological, and Environmental Statistics, 2021, 26, 387-408.	0.7	2
5	Matrix Autoregressive Spatio-Temporal Models. Journal of Computational and Graphical Statistics, 2021, 30, 1143-1155.	0.9	3
6	Discussion of â€œFrom Fixed-X to Random-X Regression: Bias-Variance Decompositions, Covariance Penalties, and Prediction Error Estimationâ€• Journal of the American Statistical Association, 2020, 115, 152-156.	1.8	0
7	Intensity estimation of spatial point processes based on area-aggregated data. Japanese Journal of Statistics and Data Science, 2020, 3, 413-428.	0.7	0
8	Regularized spatial maximum covariance analysis. Environmetrics, 2018, 29, e2481.	0.6	2
9	Resolution Adaptive Fixed Rank Kriging. Technometrics, 2018, 60, 198-208.	1.3	34
10	Realâ€time PM_{2.5} mapping and anomaly detection from AirBoxes in Taiwan. Environmetrics, 2018, 29, e2537.	0.6	11
11	Regularized Principal Component Analysis for Spatial Data. Journal of Computational and Graphical Statistics, 2017, 26, 14-25.	0.9	19
12	Mixed domain asymptotics for a stochastic process model with time trend and measurement error. Bernoulli, 2017, 23, .	0.7	8
13	High-dimensional covariance estimation under the presence of outliers. Statistics and Its Interface, 2016, 9, 461-468.	0.2	1
14	Asymptotic theory of generalized information criterion for geostatistical regression model selection. Annals of Statistics, 2014, 42, .	1.4	6
15	Non-stationary Multivariate Spatial Covariance Estimation via Low-Rank Regularization. Statistica Sinica, 2014, , .	0.2	0
16	Nonstationary Spatial Modeling Using Penalized Likelihood. Statistica Sinica, 2013, , .	0.2	0
17	Simultaneous supervised clustering and feature selection over a graph. Biometrika, 2012, 99, 899-914.	1.3	28
18	Fixed and random effects selection in nonparametric additive mixed models. Electronic Journal of Statistics, 2012, 6, .	0.4	11

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19	Geostatistical model averaging based on conditional information criteria. Environmental and Ecological Statistics, 2012, 19, 23-35.	1.9	11
20	A group lasso approach for nonâ€stationary spatialâ€“temporal covariance estimation. Environmetrics, 2012, 23, 12-23.	0.6	11
21	An improved Cp criterion for spline smoothing. Journal of Statistical Planning and Inference, 2011, 141, 445-452.	0.4	8
22	A new approach for selecting the number of factors. Computational Statistics and Data Analysis, 2010, 54, 2990-2998.	0.7	15
23	On Selection of Spatial Linear Models for Lattice Data. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2010, 72, 389-402.	1.1	45
24	Semiparametric Estimation and Selection for Nonstationary Spatial Covariance Functions. Journal of Computational and Graphical Statistics, 2010, 19, 117-139.	0.9	15
25	Stabilized thresholding with generalized sure for image denoising. , 2010, , .		1
26	Grouping Pursuit Through a Regularization Solution Surface. Journal of the American Statistical Association, 2010, 105, 727-739.	1.8	90
27	Spatial Lasso With Applications to GIS Model Selection. Journal of Computational and Graphical Statistics, 2010, 19, 963-983.	0.9	30
28	Optimal Geostatistical Model Selection. Journal of the American Statistical Association, 2007, 102, 1009-1024.	1.8	42
29	Model comparison and selection for stationary spaceâ€“time models. Computational Statistics and Data Analysis, 2007, 51, 4577-4596.	0.7	27
30	Dynamic multi-resolution spatial models. Environmental and Ecological Statistics, 2007, 14, 5-25.	1.9	41
31	Data Adaptive Median Filters for Signal and Image Denoising Using a Generalized SURE Criterion. IEEE Signal Processing Letters, 2006, 13, 561-564.	2.1	12
32	Optimal Model Assessment, Selection, and Combination. Journal of the American Statistical Association, 2006, 101, 554-568.	1.8	52
33	Modeling spatial-temporal binary data using Markov random fields. Journal of Agricultural, Biological, and Environmental Statistics, 2005, 10, 212-225.	0.7	58
34	A Fast, Optimal Spatial-Prediction Method for Massive Datasets. Journal of the American Statistical Association, 2005, 100, 1343-1357.	1.8	22
35	Modeling transport effects on ground-level ozone using a non-stationary spaceâ€“time model. Environmetrics, 2004, 15, 251-268.	0.6	34
36	Inference After Model Selection. Journal of the American Statistical Association, 2004, 99, 751-762.	1.8	44

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37	Adaptive Model Selection and Assessment for Exponential Family Distributions. Technometrics, 2004, 46, 306-317.	1.3	27
38	CONTRIBUTION OF ENDOTOXIN IN MACROPHAGE CYTOKINE RESPONSE TO AMBIENT PARTICLES IN VITRO. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2002, 65, 1261-1272.	1.1	51
39	Fast, Resolution-Consistent Spatial Prediction of Global Processes From Satellite Data. Journal of Computational and Graphical Statistics, 2002, 11, 63-88.	0.9	81
40	Nonparametric Hypothesis Testing for a Spatial Signal. Journal of the American Statistical Association, 2002, 97, 1122-1140.	1.8	51
41	Multiscale Graphical Modeling in Space: Applications to Command and Control. Lecture Notes in Statistics, 2001, , 83-113.	0.1	13
42	Deterministic/Stochastic Wavelet Decomposition for Recovery of Signal From Noisy Data. Technometrics, 2000, 42, 262-276.	1.3	33
43	Classes of Nonseparable, Spatio-Temporal Stationary Covariance Functions. Journal of the American Statistical Association, 1999, 94, 1330-1339.	1.8	470
44	Spatio-temporal prediction of snow water equivalent using the Kalman filter. Computational Statistics and Data Analysis, 1996, 22, 159-175.	0.7	118
45	False Discovery Rates to Detect Signals from Incomplete Spatially Aggregated Data. Journal of Computational and Graphical Statistics, 0, , 1-14.	0.9	0
46	Classes of Nonseparable, Spatio-Temporal Stationary Covariance Functions. , 0, .		100