

JÃ¼rgen Pilz

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

1,635
citations

471061

17
h-index

329751

37
g-index

115
all docs

115
docs citations

115
times ranked

1986
citing authors

#	ARTICLE	IF	CITATIONS
1	Fatal landslides in Europe. <i>Landslides</i> , 2016, 13, 1545-1554.	2.7	238
2	The human cost of global warming: Deadly landslides and their triggers (1995â€“2014). <i>Science of the Total Environment</i> , 2019, 682, 673-684.	3.9	231
3	Why do we need and how should we implement Bayesian kriging methods. <i>Stochastic Environmental Research and Risk Assessment</i> , 2008, 22, 621-632.	1.9	169
4	Copula-based geostatistical modeling of continuous and discrete data including covariates. <i>Stochastic Environmental Research and Risk Assessment</i> , 2010, 24, 661-673.	1.9	100
5	Minimax linear regression estimation with symmetric parameter restrictions. <i>Journal of Statistical Planning and Inference</i> , 1986, 13, 297-318.	0.4	74
6	INTAMAP: The design and implementation of an interoperable automated interpolation web service. <i>Computers and Geosciences</i> , 2011, 37, 343-352.	2.0	52
7	Bayesian spatial modeling and interpolation using copulas. <i>Computers and Geosciences</i> , 2011, 37, 310-319.	2.0	45
8	Oxidative stress in drug-naïve first episode patients with schizophrenia and major depression: effects of disease acuity and potential confounders. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2018, 268, 129-143.	1.8	45
9	Effectiveness of respiratoryâ€“sinusâ€“arrhythmia biofeedback on stateâ€“anxiety in patients undergoing coronary angiography. <i>Journal of Advanced Nursing</i> , 2010, 66, 1101-1110.	1.5	40
10	Bayesian modelling of the effect of climate on malaria in Burundi. <i>Malaria Journal</i> , 2010, 9, 114.	0.8	39
11	Spatio-temporal interpolation of precipitation during monsoon periods in Pakistan. <i>Advances in Water Resources</i> , 2010, 33, 880-886.	1.7	33
12	Climate variability and its impacts on water resources in the Upper Indus Basin under IPCC climate change scenarios. <i>International Journal of Global Warming</i> , 2015, 8, 46.	0.2	30
13	Spatial sampling design and covariance-robust minimax prediction based on convex design ideas. <i>Stochastic Environmental Research and Risk Assessment</i> , 2010, 24, 463-482.	1.9	29
14	Network optimization algorithms and scenarios in the context of automatic mapping. <i>Computers and Geosciences</i> , 2011, 37, 289-294.	2.0	27
15	Objective Bayesian analysis of spatial data with uncertain nugget and range parameters. <i>Canadian Journal of Statistics</i> , 2012, 40, 304-327.	0.6	26
16	A spatial-temporal study for the spread of dengue depending on climate factors in Pakistan (2006â€“2017). <i>BMC Public Health</i> , 2020, 20, 995.	1.2	24
17	Correlated Parameters to Accurately Measure Uncertainty in Deep Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021, 32, 1037-1051.	7.2	21
18	A Sampling Decision System for Virtual Metrology in Semiconductor Manufacturing. <i>IEEE Transactions on Automation Science and Engineering</i> , 2015, 12, 75-83.	3.4	19

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19	Advanced Bayesian Estimation of Weibull Early Life Failure Distributions. Quality and Reliability Engineering International, 2014, 30, 363-373.	1.4	18
20	Spatial Interpolation Using Copula-Based Geostatistical Models. Quantitative Geology and Geostatistics, 2010, , 307-319.	0.1	17
21	Improved hydrological projections and reservoir management in the Upper Indus Basin under the changing climate. Water and Environment Journal, 2017, 31, 235-244.	1.0	17
22	Geo-additive modelling of malaria in Burundi. Malaria Journal, 2011, 10, 234.	0.8	16
23	A new bivariate exponential distribution for modeling moderately negative dependence. Statistical Methods and Applications, 2014, 23, 123-148.	0.7	13
24	A Bayesian approach for predicting food and beverage sales in staff canteens and restaurants. International Journal of Forecasting, 2022, 38, 321-338.	3.9	12
25	Metallogenic efficiency from deposit to regionâ€“A case study in western Zhejiang Province, southeastern China. Ore Geology Reviews, 2017, 86, 957-970.	1.1	10
26	An integrated approach for extraction of lithology information using the SPOT 6 imagery in a heavily Quaternaryâ€“covered regionâ€“North Baoji District of China. Geological Journal, 2018, 53, 352-363.	0.6	10
27	Integrated Approach for Lithological Classification Using ASTER Imagery in a Shallowly Covered Regionâ€“The Eastern Yanshan Mountain of China. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 4791-4807.	2.3	10
28	A novel approach for modelling pattern and spatial dependence structures between climate variables by combining mixture models with copula models. International Journal of Climatology, 2020, 40, 1049-1066.	1.5	10
29	Measuring the Uncertainty of Predictions in Deep Neural Networks with Variational Inference. Sensors, 2020, 20, 6011.	2.1	10
30	Evaluation of CMIP5 models and ensemble climate projections using a Bayesian approach: a case study of the Upper Indus Basin, Pakistan. Environmental and Ecological Statistics, 2021, 28, 383-404.	1.9	10
31	Linguistic Complexity: Relationships Between Phoneme Inventory Size, Syllable Complexity, Word and Clause Length, and Population Size. Frontiers in Communication, 2021, 6, .	0.6	10
32	Introduction to this special issue on geoinformatics for environmental surveillance. Computers and Geosciences, 2011, 37, 277-279.	2.0	9
33	Homogeneous climate regions in Pakistan. International Journal of Global Warming, 2011, 3, 55.	0.2	9
34	Some advances in Bayesian spatial prediction and sampling design. Spatial Statistics, 2012, 1, 65-81.	0.9	8
35	Monitoring virtual metrology reliability in a sampling decision system. , 2013, , .		8
36	Decision-Theoretical Model for Failures Which are Tackled by Countermeasures. IEEE Transactions on Reliability, 2014, 63, 583-592.	3.5	8

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37	A novel approach for extraction of Gaoshanhe-Group outcrops using Landsat Operational Land Imager (OLI) data in the heavily loess-covered Baoji District, Western China. <i>Ore Geology Reviews</i> , 2019, 108, 88-100.	1.1	8
38	An advanced area scaling approach for semiconductor burn-in. <i>Microelectronics Reliability</i> , 2015, 55, 129-137.	0.9	7
39	Evaluation of statistical downscaling models using pattern and dependence structure in the monsoon-dominated region of Pakistan. <i>Weather</i> , 2018, 73, 193-203.	0.6	7
40	A Corrected Criterion for Selecting the Optimum Number of Principal Components. <i>Austrian Journal of Statistics</i> , 2016, 38, .	0.2	6
41	Statistical Classification of Different Petrographic Varieties of Aggregates by Means of Near and Mid Infrared Spectra. <i>Mathematical Geosciences</i> , 2007, 38, 851-870.	0.9	5
42	Application of Bayesian networks to predict SMART power semiconductor lifetime. , 2013, , .		5
43	Portable Chamber System for Measuring Chloroform Fluxes from Terrestrial Environments â€“ Methodological Challenges. <i>Environmental Science & Technology</i> , 2013, 47, 14298-14305.	4.6	5
44	Failure probability estimation with differently sized reference products for semiconductor burn-in studies. <i>Applied Stochastic Models in Business and Industry</i> , 2015, 31, 732-744.	0.9	5
45	An Explicit Solution for Image Restoration using Markov Random Fields. <i>Journal of Signal Processing Systems</i> , 2020, 92, 257-267.	1.4	5
46	A novel Bayesian approach for variable selection in linear regression models. <i>Computational Statistics and Data Analysis</i> , 2020, 144, 106881.	0.7	5
47	Spatial interpolation methods to predict airborne pesticide drift deposits on soils using knapsack sprayers. <i>Chemosphere</i> , 2020, 258, 127231.	4.2	5
48	Application of unsupervised learning of finite mixture models in ASTER VNIR data-driven land use classification. <i>Journal of Spatial Science</i> , 2021, 66, 89-112.	1.0	5
49	Bayesian Trans-Gaussian Kriging with Log-Log Transformed Skew Data. , 2009, , 29-43.		5
50	Statistical Analysis of QKD Networks in Real-Life Environments. , 2009, , .		4
51	Dynamic Maintenance in semiconductor manufacturing using Bayesian networks. , 2011, , .		4
52	A Bayesian approach to estimating linear mixtures with unknown covariance structure. <i>Journal of Applied Statistics</i> , 2011, 38, 1801-1817.	0.6	4
53	Sampling Decision System in semiconductor manufacturing using Virtual Metrology. , 2012, , .		4
54	A new bivariate Gamma distribution generated from functional scale parameter with application to drought data. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013, 27, 1039-1054.	1.9	4

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55	Uncertainty Estimation in Deep Neural Networks for Point Cloud Segmentation in Factory Planning. Modelling, 2021, 2, 1-17.	0.8	4
56	Support Vector Machines for Classification of Aggregates by Means of IR-Spectra. Mathematical Geosciences, 2007, 39, 307-319.	0.9	3
57	Impact of increased temperature on malaria transmission in Burundi. International Journal of Global Warming, 2011, 3, 77.	0.2	3
58	On the performance of a new bivariate pseudo Pareto distribution with application to drought data. Stochastic Environmental Research and Risk Assessment, 2012, 26, 925-945.	1.9	3
59	Device level Maverick screening - detection of risk devices through Independent Component Analysis. , 2014, , .		3
60	Failure probability estimation under additional subsystem information with application to semiconductor burn-in. Journal of Applied Statistics, 2017, 44, 955-967.	0.6	3
61	Point Based Deep Learning to Automate Automotive Assembly Simulation Model Generation with Respect to the Digital Factory. , 2020, , .		3
62	From a Point Cloud to a Simulation Model – Bayesian Segmentation and Entropy Based Uncertainty Estimation for 3D Modelling. Entropy, 2021, 23, 301.	1.1	3
63	A sampling decision system for semiconductor manufacturing - relying on virtual metrology and actual measurements. , 2014, , .		2
64	Estimation of nonstrict Archimedean copulas and its application to quantum networks. Applied Stochastic Models in Business and Industry, 2015, 31, 464-482.	0.9	2
65	Stochastic model for drought analysis of the Colorado River Basin. Stochastic Environmental Research and Risk Assessment, 2021, 35, 1637.	1.9	2
66	On the equivalence of spectral theory and bayesian analysis in minimax linear estimation. Acta Applicandae Mathematicae, 1996, 43, 43-57.	0.5	1
67	Applying Bayesian mixtures-of-experts models to statistical description of smart power semiconductor reliability. Microelectronics Reliability, 2011, 51, 1464-1468.	0.9	1
68	Likelihood and objective Bayesian modeling of acidity and major ions in rainfall using a bivariate pseudo-Gamma distribution. Computers and Geosciences, 2013, 54, 269-278.	2.0	1
69	Modeling and prediction of smart power semiconductor lifetime data using a Gaussian process prior. , 2014, , .		1
70	Survey of recent advanced statistical models for early life failure probability assessment in semiconductor manufacturing. , 2014, , .		1
71	Bayesian Network Model with Application to Smart Power Semiconductor Lifetime Data. Risk Analysis, 2015, 35, 1623-1639.	1.5	1
72	Unsupervised Algorithm to Detect Damage Patterns in Microstructure Images of Metal Films. , 2018, , .		1

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73	Benefits and Application of Tree Structures in Gaussian Process Models to Optimize Magnetic Field Shaping Problems. Springer Proceedings in Mathematics and Statistics, 2018, , 161-170.	0.1	1
74	Robust additive Gaussian process models using reference priors and cut-off-designs. Applied Mathematical Modelling, 2019, 65, 586-596.	2.2	1
75	Exact Confidence Intervals for the Hazard Rate of a Series Reliability System. , 2020, , .		1
76	Flexible time reduction method for burn-in of high-quality products. Quality and Reliability Engineering International, 2021, 37, 2900-2915.	1.4	1
77	Modelling and sensitivity analysis of river flow in the Upper Indus Basin, Pakistan. International Journal of Water, 2018, 12, 1.	0.1	1
78	An Explicit Distribution to Model the Proportion of Heating Degree Day and Cooling Degree Day. Communications in Statistics Part B: Simulation and Computation, 2016, 45, 2617-2624.	0.6	0
79	Ore- and Bio- Geochemical Survey Based on the Landsat Remotely Sensed Data In and Around the Dexing Porphyry Copper-Polymetal Ore-Field, Southeastern China. Journal of the Indian Society of Remote Sensing, 2018, 46, 97-107.	1.2	0
80	An Overview on Recent Advances in Statistical Burn-In Modeling for Semiconductor Devices. Springer Proceedings in Mathematics and Statistics, 2018, , 371-380.	0.1	0
81	Statistical Methodology for Evaluating Process-Based Climate Models. , 0, , .		0
82	An Empirical Approach That a Two-Stage Procedure is Better Than Bechhofer's Approach. Journal of Statistical Theory and Practice, 2020, 14, 1.	0.3	0
83	A new life time distribution with applications in reliability and environmental sciences. Journal of Statistics and Management Systems, 2021, 24, 453-479.	0.3	0
84	Uncertainty aware deep point based neural network for 3D object classification. , 2021, , 66-73.		0
85	Reply to Comment on "Hierarchical Bayesian space-time interpolation versus spatio-temporal BME approach" by Kolovos (2009). Advances in Geosciences, 0, 25, 181-181.	12.0	0
86	A Recurrence Relation of Hypergeometric Series Through Record Statistics and a Characterization. Applied Mathematics and Information Sciences, 2013, 7, 1307-1310.	0.7	0
87	Assessing the Statistical Quality of RNGs. Quantum Science and Technology, 2020, , 45-64.	1.5	0
88	Presentation of Entrepreneurship Data and Aspects of Spatial Modeling. , 2009, , 189-200.		0
89	Daubechies Wavelets for Identification of Rock Variants from IR Spectra. , 2009, , 79-88.		0