

JÃ¼rgen Pilz

List of Publications by Year in descending order

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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	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
2	Correlated Parameters to Accurately Measure Uncertainty in Deep Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 1037-1051.	7.2	21
3	Application of unsupervised learning of finite mixture models in ASTER VNIR data-driven land use classification. Journal of Spatial Science, 2021, 66, 89-112.	1.0	5
4	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
5	Stochastic model for drought analysis of the Colorado River Basin. Stochastic Environmental Research and Risk Assessment, 2021, 35, 1637.	1.9	2
6	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
7	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
8	Flexible time reduction method for burn-in of high-quality products. Quality and Reliability Engineering International, 2021, 37, 2900-2915.	1.4	1
9	Linguistic Complexity: Relationships Between Phoneme Inventory Size, Syllable Complexity, Word and Clause Length, and Population Size. Frontiers in Communication, 2021, 6, .	0.6	10
10	Uncertainty aware deep point based neural network for 3D object classification. , 2021, , 66-73.		0
11	Uncertainty Estimation in Deep Neural Networks for Point Cloud Segmentation in Factory Planning. Modelling, 2021, 2, 1-17.	0.8	4
12	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
13	An Explicit Solution for Image Restoration using Markov Random Fields. Journal of Signal Processing Systems, 2020, 92, 257-267.	1.4	5
14	A novel Bayesian approach for variable selection in linear regression models. Computational Statistics and Data Analysis, 2020, 144, 106881.	0.7	5
15	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
16	Exact Confidence Intervals for the Hazard Rate of a Series Reliability System. , 2020, , .		1
17	Measuring the Uncertainty of Predictions in Deep Neural Networks with Variational Inference. Sensors, 2020, 20, 6011.	2.1	10
18	Spatial interpolation methods to predict airborne pesticide drift deposits on soils using knapsack sprayers. Chemosphere, 2020, 258, 127231.	4.2	5

#	ARTICLE	IF	CITATIONS
19	Point Based Deep Learning to Automate Automotive Assembly Simulation Model Generation with Respect to the Digital Factory. , 2020, , .		3
20	A spatial-temporal study for the spread of dengue depending on climate factors in Pakistan (2006â€“2017). BMC Public Health, 2020, 20, 995.	1.2	24
21	Assessing the Statistical Quality of RNGs. Quantum Science and Technology, 2020, , 45-64.	1.5	0
22	The human cost of global warming: Deadly landslides and their triggers (1995â€“2014). Science of the Total Environment, 2019, 682, 673-684.	3.9	231
23	Robust additive Gaussian process models using reference priors and cut-off-designs. Applied Mathematical Modelling, 2019, 65, 586-596.	2.2	1
24	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. Ore Geology Reviews, 2019, 108, 88-100.	1.1	8
25	Evaluation of statistical downscaling models using pattern and dependence structure in the monsoon-dominated region of Pakistan. Weather, 2018, 73, 193-203.	0.6	7
26	Oxidative stress in drug-naïve first episode patients with schizophrenia and major depression: effects of disease acuity and potential confounders. European Archives of Psychiatry and Clinical Neuroscience, 2018, 268, 129-143.	1.8	45
27	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
28	An integrated approach for extraction of lithology information using the SPOT 6 imagery in a heavily Quaternary-covered regionâ€“North Baoji District of China. Geological Journal, 2018, 53, 352-363.	0.6	10
29	Unsupervised Algorithm to Detect Damage Patterns in Microstructure Images of Metal Films. , 2018, , .		1
30	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
31	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
32	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
33	Modelling and sensitivity analysis of river flow in the Upper Indus Basin, Pakistan. International Journal of Water, 2018, 12, 1.	0.1	1
34	Failure probability estimation under additional subsystem information with application to semiconductor burn-in. Journal of Applied Statistics, 2017, 44, 955-967.	0.6	3
35	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
36	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

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37	Fatal landslides in Europe. Landslides, 2016, 13, 1545-1554.	2.7	238
38	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
39	A Corrected Criterion for Selecting the Optimum Number of Principal Components. Austrian Journal of Statistics, 2016, 38, .	0.2	6
40	Climate variability and its impacts on water resources in the Upper Indus Basin under IPCC climate change scenarios. International Journal of Global Warming, 2015, 8, 46.	0.2	30
41	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
42	Failure probability estimation with differently sized reference products for semiconductor burn-in studies. Applied Stochastic Models in Business and Industry, 2015, 31, 732-744.	0.9	5
43	Bayesian Network Model with Application to Smart Power Semiconductor Lifetime Data. Risk Analysis, 2015, 35, 1623-1639.	1.5	1
44	An advanced area scaling approach for semiconductor burn-in. Microelectronics Reliability, 2015, 55, 129-137.	0.9	7
45	A Sampling Decision System for Virtual Metrology in Semiconductor Manufacturing. IEEE Transactions on Automation Science and Engineering, 2015, 12, 75-83.	3.4	19
46	Modeling and prediction of smart power semiconductor lifetime data using a Gaussian process prior. , 2014, , .		1
47	Device level Maverick screening - detection of risk devices through Independent Component Analysis. , 2014, , .		3
48	Survey of recent advanced statistical models for early life failure probability assessment in semiconductor manufacturing. , 2014, , .		1
49	Decision-Theoretical Model for Failures Which are Tackled by Countermeasures. IEEE Transactions on Reliability, 2014, 63, 583-592.	3.5	8
50	A sampling decision system for semiconductor manufacturing - relying on virtual metrology and actual measurements. , 2014, , .		2
51	A new bivariate exponential distribution for modeling moderately negative dependence. Statistical Methods and Applications, 2014, 23, 123-148.	0.7	13
52	Advanced Bayesian Estimation of Weibull Early Life Failure Distributions. Quality and Reliability Engineering International, 2014, 30, 363-373.	1.4	18
53	Application of Bayesian networks to predict SMART power semiconductor lifetime. , 2013, , .		5
54	Monitoring virtual metrology reliability in a sampling decision system. , 2013, , .		8

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55	Likelihood and objective Bayesian modeling of acidity and major ions in rainfall using a bivariate pseudo-Gamma distribution. <i>Computers and Geosciences</i> , 2013, 54, 269-278.	2.0	1
56	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
57	Portable Chamber System for Measuring Chloroform Fluxes from Terrestrial Environments – Methodological Challenges. <i>Environmental Science & Technology</i> , 2013, 47, 14298-14305.	4.6	5
58	A Recurrence Relation of Hypergeometric Series Through Record Statistics and a Characterization. <i>Applied Mathematics and Information Sciences</i> , 2013, 7, 1307-1310.	0.7	0
59	On the performance of a new bivariate pseudo Pareto distribution with application to drought data. <i>Stochastic Environmental Research and Risk Assessment</i> , 2012, 26, 925-945.	1.9	3
60	Sampling Decision System in semiconductor manufacturing using Virtual Metrology. , 2012, , .		4
61	Some advances in Bayesian spatial prediction and sampling design. <i>Spatial Statistics</i> , 2012, 1, 65-81.	0.9	8
62	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
63	Dynamic Maintenance in semiconductor manufacturing using Bayesian networks. , 2011, , .		4
64	Impact of increased temperature on malaria transmission in Burundi. <i>International Journal of Global Warming</i> , 2011, 3, 77.	0.2	3
65	Applying Bayesian mixtures-of-experts models to statistical description of smart power semiconductor reliability. <i>Microelectronics Reliability</i> , 2011, 51, 1464-1468.	0.9	1
66	INTAMAP: The design and implementation of an interoperable automated interpolation web service. <i>Computers and Geosciences</i> , 2011, 37, 343-352.	2.0	52
67	Network optimization algorithms and scenarios in the context of automatic mapping. <i>Computers and Geosciences</i> , 2011, 37, 289-294.	2.0	27
68	Introduction to this special issue on geoinformatics for environmental surveillance. <i>Computers and Geosciences</i> , 2011, 37, 277-279.	2.0	9
69	Bayesian spatial modeling and interpolation using copulas. <i>Computers and Geosciences</i> , 2011, 37, 310-319.	2.0	45
70	Geo-additive modelling of malaria in Burundi. <i>Malaria Journal</i> , 2011, 10, 234.	0.8	16
71	A Bayesian approach to estimating linear mixtures with unknown covariance structure. <i>Journal of Applied Statistics</i> , 2011, 38, 1801-1817.	0.6	4
72	Homogeneous climate regions in Pakistan. <i>International Journal of Global Warming</i> , 2011, 3, 55.	0.2	9

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73	Spatial sampling design and covariance-robust minimax prediction based on convex design ideas. Stochastic Environmental Research and Risk Assessment, 2010, 24, 463-482.	1.9	29
74	Copula-based geostatistical modeling of continuous and discrete data including covariates. Stochastic Environmental Research and Risk Assessment, 2010, 24, 661-673.	1.9	100
75	Spatio-temporal interpolation of precipitation during monsoon periods in Pakistan. Advances in Water Resources, 2010, 33, 880-886.	1.7	33
76	Effectiveness of respiratoryâ€sinusâ€arrhythmia biofeedback on stateâ€anxiety in patients undergoing coronary angiography. Journal of Advanced Nursing, 2010, 66, 1101-1110.	1.5	40
77	Spatial Interpolation Using Copula-Based Geostatistical Models. Quantitative Geology and Geostatistics, 2010, , 307-319.	0.1	17
78	Bayesian modelling of the effect of climate on malaria in Burundi. Malaria Journal, 2010, 9, 114.	0.8	39
79	Statistical Analysis of QKD Networks in Real-Life Environments. , 2009, , .		4
80	Bayesian Trans-Gaussian Kriging with Log-Log Transformed Skew Data. , 2009, , 29-43.		5
81	Presentation of Entrepreneurship Data and Aspects of Spatial Modeling. , 2009, , 189-200.		0
82	Daubechies Wavelets for Identification of Rock Variants from IR Spectra. , 2009, , 79-88.		0
83	Why do we need and how should we implement Bayesian kriging methods. Stochastic Environmental Research and Risk Assessment, 2008, 22, 621-632.	1.9	169
84	Statistical Classification of Different Petrographic Varieties of Aggregates by Means of Near and Mid Infrared Spectra. Mathematical Geosciences, 2007, 38, 851-870.	0.9	5
85	Support Vector Machines for Classification ofÂAggregates by Means of IR-Spectra. Mathematical Geosciences, 2007, 39, 307-319.	0.9	3
86	On the equivalence of spectral theory and bayesian analysis in minimax linear estimation. Acta Applicandae Mathematicae, 1996, 43, 43-57.	0.5	1
87	Minimax linear regression estimation with symmetric parameter restrictions. Journal of Statistical Planning and Inference, 1986, 13, 297-318.	0.4	74
88	Statistical Methodology for Evaluating Process-Based Climate Models. , 0, , .		0
89	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