

Yu Ding

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65
papers

998
citations

15
h-index

30
g-index

70
ext. papers

1,213
ext. citations

3.6
avg, IF

4.69
L-index

#	Paper	IF	Citations
65	Joint Estimation of Monotone Curves via Functional Principal Component Analysis.. <i>Computational Statistics and Data Analysis</i> , 2022 , 166, 107343-107343	1.6	1
64	. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2021 , 34, 194-206	2.6	3
63	A case study of space-time performance comparison of wind turbines on a wind farm. <i>Renewable Energy</i> , 2021 , 171, 735-746	8.1	5
62	Super Resolution. <i>Profiles in Operations Research</i> , 2021 , 323-360	1	
61	Segmentation. <i>Profiles in Operations Research</i> , 2021 , 35-74	1	
60	Location and Dispersion Analysis. <i>Profiles in Operations Research</i> , 2021 , 109-144	1	
59	Change Point Detection. <i>Profiles in Operations Research</i> , 2021 , 241-275	1	
58	Multi-Object Tracking Analysis. <i>Profiles in Operations Research</i> , 2021 , 277-321	1	
57	Graph Regularized Autoencoder and its Application in Unsupervised Anomaly Detection. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , PP,	13.3	2
56	State Space Modeling for Size Changes. <i>Profiles in Operations Research</i> , 2021 , 177-213	1	
55	Effective Super-Resolution Methods for Paired Electron Microscopic Images. <i>IEEE Transactions on Image Processing</i> , 2020 , 29, 7317-7330	8.7	3
54	A model-based calibration approach for structural fault diagnosis using piezoelectric impedance measurements and a finite element model. <i>Structural Health Monitoring</i> , 2020 , 19, 1839-1855	4.4	10
53	A Gaussian Process Model-Guided Surface Polishing Process in Additive Manufacturing. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2020 , 142,	3.3	4
52	Dynamic Data-Driven Distribution Tracking of Nanoparticle Morphology. <i>Lecture Notes in Computer Science</i> , 2020 , 132-139	0.9	
51	Automating material image analysis for material discovery. <i>MRS Communications</i> , 2019 , 9, 545-555	2.7	15
50	Unsupervised Anomaly Detection Based on Minimum Spanning Tree Approximated Distance Measures and its Application to Hydropower Turbines. <i>IEEE Transactions on Automation Science and Engineering</i> , 2019 , 16, 654-667	4.9	18
49	SPATIO-TEMPORAL SHORT-TERM WIND FORECAST: A CALIBRATED REGIME-SWITCHING METHOD. <i>Annals of Applied Statistics</i> , 2019 , 13, 1484-1510	2.1	12

48	Fast dynamic nonparametric distribution tracking in electron microscopic data. <i>Annals of Applied Statistics</i> , 2019 , 13,	2.1	3
47	2019 ,		2
46	Spatio-temporal asymmetry of local wind fields and its impact on short-term wind forecasting. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 1437-1447	8.2	36
45	Sequential Design for Functional Calibration of Computer Models. <i>Technometrics</i> , 2018 , 60, 286-296	1.4	11
44	Spline model for wake effect analysis: Characteristics of a single wake and its impacts on wind turbine power generation. <i>IIEE Transactions</i> , 2018 , 50, 112-125	3.3	4
43	Outlier Detection for Hydropower Generation Plant 2018 ,		2
42	Evaluation of alternative power production efficiency metrics for offshore wind turbines and farms. <i>Renewable Energy</i> , 2018 , 128, 81-90	8.1	10
41	Quantifying Nanoparticle Mixing State to Account for Both Location and Size Effects. <i>Technometrics</i> , 2017 , 59, 391-403	1.4	7
40	Identifying multi-stage nanocrystal growth using in situ TEM video data. <i>IIEE Transactions</i> , 2017 , 49, 532-543	3.3	10
39	Matching Misaligned Two-Resolution Metrology Data. <i>IEEE Transactions on Automation Science and Engineering</i> , 2017 , 14, 222-237	4.9	7
38	A production economics analysis for quantifying the efficiency of wind turbines. <i>Wind Energy</i> , 2017 , 20, 1501-1513	3.4	9
37	Quantifying the effect of vortex generator installation on wind power production: An academia-industry case study. <i>Renewable Energy</i> , 2017 , 113, 1589-1597	8.1	29
36	Short-Term Wind Speed Forecast Using Measurements From Multiple Turbines in A Wind Farm. <i>Technometrics</i> , 2016 , 58, 138-147	1.4	23
35	Graph-based clustering for detecting frequent patterns in event log data 2016 ,		1
34	Robust Nanoparticles Detection From Noisy Background by Fusing Complementary Image Information. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 5713-5726	8.7	13
33	Modulus prediction of buckypaper based on multi-fidelity analysis involving latent variables. <i>IIE Transactions</i> , 2015 , 47, 141-152		14
32	Power Curve Estimation With Multivariate Environmental Factors for Inland and Offshore Wind Farms. <i>Journal of the American Statistical Association</i> , 2015 , 110, 56-67	2.8	49
31	Power Curve Estimation: Functional Estimation Imposing the Regular Ultra Passum Law. <i>SSRN Electronic Journal</i> , 2015 ,	1	3

30	Multi-component wind turbine modeling and simulation for wind farm operations and maintenance. <i>Simulation</i> , 2015 , 91, 360-382	1.2	11
29	A kernel plus method for quantifying wind turbine performance upgrades. <i>Wind Energy</i> , 2015 , 18, 1207-1219	3.1	43
28	Bayesian site selection for fast Gaussian process regression. <i>IIE Transactions</i> , 2014 , 46, 543-555		4
27	Segmentation, Inference and Classification of Partially Overlapping Nanoparticles. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2013 , 35, 669-81	13.3	71
26	Hybridization of Bound-and-Decompose and Mixed Integer Feasibility Checking to Measure Redundancy in Structured Linear Systems. <i>IEEE Transactions on Automation Science and Engineering</i> , 2013 , 10, 1151-1157	4.9	2
25	Using container inspection history to improve interdiction logistics for illicit nuclear materials. <i>Naval Research Logistics</i> , 2013 , 60, 433-448	1.5	1
24	Bayesian object classification of gold nanoparticles. <i>Annals of Applied Statistics</i> , 2013 , 7,	2.1	10
23	A multistage, semi-automated procedure for analyzing the morphology of nanoparticles. <i>IIE Transactions</i> , 2012 , 44, 507-522		23
22	Detecting nuclear materials smuggling: using radiography to improve container inspection policies. <i>Annals of Operations Research</i> , 2011 , 187, 65-87	3.2	15
21	An Integer Programming Approach for Analyzing the Measurement Redundancy in Structured Linear Systems. <i>IEEE Transactions on Automation Science and Engineering</i> , 2011 , 8, 447-450	4.9	4
20	Bayesian hierarchical model for combining misaligned two-resolution metrology data. <i>IIE Transactions</i> , 2011 , 43, 242-258		29
19	Decision Fusion from Heterogeneous Sensors in Surveillance Sensor Systems. <i>IEEE Transactions on Automation Science and Engineering</i> , 2011 , 8, 228-233	4.9	13
18	Robust Calibration for Localization in Clustered Wireless Sensor Networks. <i>IEEE Transactions on Automation Science and Engineering</i> , 2010 , 7, 81-95	4.9	7
17	A classification procedure for highly imbalanced class sizes. <i>IIE Transactions</i> , 2010 , 42, 288-303		22
16	Season-Dependent Condition-Based Maintenance for a Wind Turbine Using a Partially Observed Markov Decision Process. <i>IEEE Transactions on Power Systems</i> , 2010 , 25, 1823-1834	7	115
15	Optimal Maintenance Strategies for Wind Turbine Systems Under Stochastic Weather Conditions. <i>IEEE Transactions on Reliability</i> , 2010 , 59, 393-404	4.6	140
14	Optimal sensor distribution in multi-station assembly processes for maximal variance detection capability. <i>IIE Transactions</i> , 2009 , 41, 804-818		7
13	Calculating the Breakdown Point of Sparse Linear Models. <i>Technometrics</i> , 2009 , 51, 34-46	1.4	6

12	Gaussian process method for form error assessment using coordinate measurements. <i>IIE Transactions</i> , 2008 , 40, 931-946		38
11	Collaborative data reduction for energy efficient sensor networks 2008 ,		1
10	Adaptive evolutionary Monte Carlo algorithm for optimization with applications to sensor placement problems. <i>Statistics and Computing</i> , 2008 , 18, 375-390	1.8	11
9	Robust Calibration for Localization in Clustered Wireless Sensor Networks 2007 ,		5
8	Pattern matching for variation-source identification in manufacturing processes in the presence of unstructured noise. <i>IIE Transactions</i> , 2007 , 39, 251-263		13
7	A data mining approach to study the significance of nonlinearity in multistation assembly processes. <i>IIE Transactions</i> , 2006 , 38, 1069-1083		4
6	A survey of inspection strategy and sensor distribution studies in discrete-part manufacturing processes. <i>IIE Transactions</i> , 2006 , 38, 309-328		83
5	Lone but Not Alone: Precise Positioning of Lone Pairs for the Design of Photocatalytic Architectures. <i>Chemistry of Materials</i> ,	9.6	1
4	Data Science for Wind Energy		9
3	Gaussian Process-Aided Function Comparison Using Noisy Scattered Data. <i>Technometrics</i> ,1-11	1.4	0
2	A Reproducing Kernel Hilbert Space Approach to Functional Calibration of Computer Models. <i>Journal of the American Statistical Association</i> ,1-15	2.8	1
1	The temporal overfitting problem with applications in wind power curve modeling. <i>Technometrics</i> ,1-31	1.4	0