Katharina Morik

List of Publications by Year
in descending order

57 papers	1,082 citations	516710 16 h-index	434195 31 g-index
60 all docs	60 docs citations	60 times ranked	1202 citing authors

#	Article	IF	Citations
1	Randomized outlier detection with trees. International Journal of Data Science and Analytics, 2022, 13, 91-104.	4.1	9
2	FeFET-Based Binarized Neural Networks Under Temperature-Dependent Bit Errors. IEEE Transactions on Computers, 2022, 71, 1681-1695.	3.4	10
3	Reliable Binarized Neural Networks on Unreliable Beyond Von-Neumann Architecture. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 2516-2528.	5.4	8
4	Simulation and sensor data fusion for machine learning application. Advanced Engineering Informatics, 2022, 52, 101600.	8.0	9
5	Early Quality Prediction using Deep Learning on Time Series Sensor Data. Procedia CIRP, 2022, 107, 611-616.	1.9	2
6	Explainable Predictive Quality Inspection using Deep Learning in Electronics Manufacturing. Procedia CIRP, 2022, 107, 594-599.	1.9	5
7	On-Site Gamma-Hadron Separation with Deep Learning on FPGAs. Lecture Notes in Computer Science, 2021, , 478-493.	1.3	3
8	Give more data, awareness and control to individual citizens, and they will help COVID-19 containment. Ethics and Information Technology, 2021, 23, 1-6.	3.8	33
9	Margin-Maximization in Binarized Neural Networks for Optimizing Bit Error Tolerance. , 2021, , .		11
10	An Actor-Critic Ensemble Aggregation Model for Time-Series Forecasting. , 2021, , .		2
11	Meta-Adversarial Training of Neural Networks for Binary Classification. , 2021, , .		0
12	Very Fast Streaming Submodular Function Maximization. Lecture Notes in Computer Science, 2021, , 151-166.	1.3	1
13	Online Ensemble Aggregation using Deep Reinforcement Learning for Time Series Forecasting. , 2021, , .		5
14	Active Sampling for Learning Interpretable Surrogate Machine Learning Models. , 2020, , .		3
15	Real-time prediction of process forces in milling operations using synchronized data fusion of simulation and sensor data. Engineering Applications of Artificial Intelligence, 2020, 94, 103753.	8.1	24
16	Generalized Isolation Forest: Some Theory and More Applications Extended Abstract. , 2020, , .		5
17	No Cloud on the Horizon: Probabilistic Gap Filling in Satellite Image Series. , 2020, , .		2
18	Active Learning for Accurate Settlement Prediction Using Numerical Simulations in Mechanized Tunneling. Procedia CIRP, 2019, 81, 1052-1058.	1.9	9

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19	The SpectACl of Nonconvex Clustering: A Spectral Approach to Density-Based Clustering. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 3788-3795.	4.9	20
20	Gaussian Model Trees for Traffic Imputation. , 2019, , .		1
21	Decision Tree and Random Forest Implementations for Fast Filtering of Sensor Data. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 209-222.	5.4	49
22	Unification of Deconvolution Algorithms for Cherenkov Astronomy. , 2018, , .		6
23	Stability prediction in milling processes using a simulation-based Machine Learning approach. Procedia CIRP, 2018, 72, 1493-1498.	1.9	25
24	Realization of Random Forest for Real-Time Evaluation through Tree Framing. , 2018, , .		16
25	Dynamic route planning with real-time traffic predictions. Information Systems, 2017, 64, 258-265.	3.6	102
26	The PRIMPING routineâ€"Tiling through proximal alternating linearized minimization. Data Mining and Knowledge Discovery, 2017, 31, 1090-1131.	3.7	14
27	Mining Urban Data (Part C). Information Systems, 2017, 64, 219-220.	3.6	7
28	Interpretable domain adaptation via optimization over the Stiefel manifold. Machine Learning, 2016, 104, 315-336.	5.4	7
29	Mining Urban Data (Part B). Information Systems, 2016, 57, 75-76.	3.6	8
30	Integer undirected graphical models for resource-constrained systems. Neurocomputing, 2016, 173, 9-23.	5.9	18
31	Sensitivity to cdk1-inhibition is modulated by p53 status in preclinical models of embryonal tumors. Oncotarget, 2015, 6, 15425-15435.	1.8	37
32	Open Smartphone Data for Structured Mobility and Utilization Analysis in Ubiquitous Systems. Lecture Notes in Computer Science, 2015, , 116-130.	1.3	0
33	Robust Selection of Cancer Survival Signatures from High-Throughput Genomic Data Using Two-Fold Subsampling. PLoS ONE, 2014, 9, e108818.	2.5	6
34	Spatio-temporal random fields: compressible representation and distributed estimation. Machine Learning, 2013, 93, 115-139.	5.4	21
35	Quality Prediction in Interlinked Manufacturing Processes based on Supervised & Unsupervised Machine Learning. Procedia CIRP, 2013, 7, 193-198.	1.9	99
36	Using a Clustering Approach with Evolutionary Optimized Attribute Weights to Form Product Families for Production Leveling. Lecture Notes in Production Engineering, 2013, , 189-202.	0.4	2

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37	Introduction to data mining for sustainability. Data Mining and Knowledge Discovery, 2012, 24, 311-324.	3.7	19
38	Multi-objective frequent termset clustering. Knowledge and Information Systems, 2012, 30, 715-738.	3.2	11
39	Separable Approximate Optimization of Support Vector Machines for Distributed Sensing. Lecture Notes in Computer Science, 2012, , 387-402.	1.3	6
40	Towards Adjusting Mobile Devices to Userâ€™s Behaviour. Lecture Notes in Computer Science, 2011, , 99-118.	1.3	3
41	Accurate prediction of neuroblastoma outcome based on miRNA expression profiles. International Journal of Cancer, 2010, 127, 2374-2385.	5.1	88
42	Enhancing Ubiquitous Systems through System Call Mining. , 2010, , .		0
43	Reanalysis of neuroblastoma expression profiling data using improved methodology and extended follow-up increases validity of outcome prediction. Cancer Letters, 2009, 282, 55-62.	7.2	10
44	Guest Editorsâ€™ introduction: special issue of selected papers from ECML PKDD 2008. Machine Learning, 2008, 72, 155-156.	5.4	0
45	About the non-convex optimization problem induced by non-positive semidefinite kernel learning. Advances in Data Analysis and Classification, 2008, 2, 241-258.	1.4	10
46	On the Automated Creation of Understandable Positive Security Models for Web Applications. , 2008, , .		2
47	Distributed feature extraction in a p2p setting â€” a case study. Future Generation Computer Systems, 2007, 23, 69-75.	7.5	17
48	Automatic Feature Extraction for Classifying Audio Data. Machine Learning, 2005, 58, 127-149.	5.4	110
49	End-user access to multiple sources: incorporating knowledge discovery into knowledge management. Intelligent Systems in Accounting, Finance and Management, 2002, 11, 201-214.	4.6	1
50	Knowledge discovery and knowledge validation in intensive care. Artificial Intelligence in Medicine, 2000, 19, 225-249.	6.5	48
51	A Multistrategy Approach to Relational Knowledge Discovery in Databases. Machine Learning, 1997, 27, 287-312.	5.4	13
52	A Polynomial Approach to the Constructive Induction of Structural Knowledge. Machine Learning, 1994, 14, 193-217.	5.4	82
53	What online machine learning can do for knowledge acquisitionâ€”a case study. International Journal of Human-Computer Studies, 1994, 6, 435-460.	1.2	16
54	Balanced Cooperative Modeling. Machine Learning, 1993, 11, 217-235.	5.4	11

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55	Underlying assumptions of knowledge acquisition and machine learning. International Journal of Human-Computer Studies, 1991, 3, 137-156.	1.2	11
56	Acquiring domain models. International Journal of Man-Machine Studies, 1987, 26, 93-104.	0.7	36
57	Customers' requirements for natural language systems: results of an inquiry. International Journal of Man-Machine Studies, 1984, 21, 401-414.	0.7	8