

# Katharina Morik

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Automatic Feature Extraction for Classifying Audio Data. Machine Learning, 2005, 58, 127-149.	5.4	110
2	Dynamic route planning with real-time traffic predictions. Information Systems, 2017, 64, 258-265.	3.6	102
3	Quality Prediction in Interlinked Manufacturing Processes based on Supervised & Unsupervised Machine Learning. Procedia CIRP, 2013, 7, 193-198.	1.9	99
4	Accurate prediction of neuroblastoma outcome based on miRNA expression profiles. International Journal of Cancer, 2010, 127, 2374-2385.	5.1	88
5	A Polynomial Approach to the Constructive Induction of Structural Knowledge. Machine Learning, 1994, 14, 193-217.	5.4	82
6	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
7	Knowledge discovery and knowledge validation in intensive care. Artificial Intelligence in Medicine, 2000, 19, 225-249.	6.5	48
8	Sensitivity to cdk1-inhibition is modulated by p53 status in preclinical models of embryonal tumors. Oncotarget, 2015, 6, 15425-15435.	1.8	37
9	Acquiring domain models. International Journal of Man-Machine Studies, 1987, 26, 93-104.	0.7	36
10	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
11	Stability prediction in milling processes using a simulation-based Machine Learning approach. Procedia CIRP, 2018, 72, 1493-1498.	1.9	25
12	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
13	Spatio-temporal random fields: compressible representation and distributed estimation. Machine Learning, 2013, 93, 115-139.	5.4	21
14	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
15	Introduction to data mining for sustainability. Data Mining and Knowledge Discovery, 2012, 24, 311-324.	3.7	19
16	Integer undirected graphical models for resource-constrained systems. Neurocomputing, 2016, 173, 9-23.	5.9	18
17	Distributed feature extraction in a p2p setting – a case study. Future Generation Computer Systems, 2007, 23, 69-75.	7.5	17
18	What online machine learning can do for knowledge acquisition – a case study. International Journal of Human-Computer Studies, 1994, 6, 435-460.	1.2	16

#	ARTICLE	IF	CITATIONS
19	Realization of Random Forest for Real-Time Evaluation through Tree Framing. , 2018, , .		16
20	The PRIMING routineâ€”Tiling through proximal alternating linearized minimization. Data Mining and Knowledge Discovery, 2017, 31, 1090-1131.	3.7	14
21	A Multistrategy Approach to Relational Knowledge Discovery in Databases. Machine Learning, 1997, 27, 287-312.	5.4	13
22	Underlying assumptions of knowledge acquisition and machine learning. International Journal of Human-Computer Studies, 1991, 3, 137-156.	1.2	11
23	Balanced Cooperative Modeling. Machine Learning, 1993, 11, 217-235.	5.4	11
24	Multi-objective frequent termset clustering. Knowledge and Information Systems, 2012, 30, 715-738.	3.2	11
25	Margin-Maximization in Binarized Neural Networks for Optimizing Bit Error Tolerance. , 2021, , .		11
26	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
27	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
28	FeFET-Based Binarized Neural Networks Under Temperature-Dependent Bit Errors. IEEE Transactions on Computers, 2022, 71, 1681-1695.	3.4	10
29	Active Learning for Accurate Settlement Prediction Using Numerical Simulations in Mechanized Tunneling. Procedia CIRP, 2019, 81, 1052-1058.	1.9	9
30	Randomized outlier detection with trees. International Journal of Data Science and Analytics, 2022, 13, 91-104.	4.1	9
31	Simulation and sensor data fusion for machine learning application. Advanced Engineering Informatics, 2022, 52, 101600.	8.0	9
32	Customers' requirements for natural language systems: results of an inquiry. International Journal of Man-Machine Studies, 1984, 21, 401-414.	0.7	8
33	Mining Urban Data (Part B). Information Systems, 2016, 57, 75-76.	3.6	8
34	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
35	Interpretable domain adaptation via optimization over the Stiefel manifold. Machine Learning, 2016, 104, 315-336.	5.4	7
36	Mining Urban Data (Part C). Information Systems, 2017, 64, 219-220.	3.6	7

#	ARTICLE	IF	CITATIONS
37	Unification of Deconvolution Algorithms for Cherenkov Astronomy. , 2018, , .		6
38	Separable Approximate Optimization of Support Vector Machines for Distributed Sensing. Lecture Notes in Computer Science, 2012, , 387-402.	1.3	6
39	Robust Selection of Cancer Survival Signatures from High-Throughput Genomic Data Using Two-Fold Subsampling. PLoS ONE, 2014, 9, e108818.	2.5	6
40	Online Ensemble Aggregation using Deep Reinforcement Learning for Time Series Forecasting. , 2021, , .		5
41	Generalized Isolation Forest: Some Theory and More Applications Extended Abstract. , 2020, , .		5
42	Explainable Predictive Quality Inspection using Deep Learning in Electronics Manufacturing. Procedia CIRP, 2022, 107, 594-599.	1.9	5
43	Active Sampling for Learning Interpretable Surrogate Machine Learning Models. , 2020, , .		3
44	On-Site Gamma-Hadron Separation with Deep Learning on FPGAs. Lecture Notes in Computer Science, 2021, , 478-493.	1.3	3
45	Towards Adjusting Mobile Devices to Userâ€™s Behaviour. Lecture Notes in Computer Science, 2011, , 99-118.	1.3	3
46	On the Automated Creation of Understandable Positive Security Models for Web Applications. , 2008, , .		2
47	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
48	An Actor-Critic Ensemble Aggregation Model for Time-Series Forecasting. , 2021, , .		2
49	No Cloud on the Horizon: Probabilistic Gap Filling in Satellite Image Series. , 2020, , .		2
50	Early Quality Prediction using Deep Learning on Time Series Sensor Data. Procedia CIRP, 2022, 107, 611-616.	1.9	2
51	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
52	Very Fast Streaming Submodular Function Maximization. Lecture Notes in Computer Science, 2021, , 151-166.	1.3	1
53	Gaussian Model Trees for Traffic Imputation. , 2019, , .		1
54	Guest Editorsâ€™ introduction: special issue of selected papers from ECML PKDD 2008. Machine Learning, 2008, 72, 155-156.	5.4	0

#	ARTICLE	IF	CITATIONS
55	Enhancing Ubiquitous Systems through System Call Mining. , 2010, , .		0
56	Meta-Adversarial Training of Neural Networks for Binary Classification. , 2021, , .		0
57	Open Smartphone Data for Structured Mobility and Utilization Analysis in Ubiquitous Systems. Lecture Notes in Computer Science, 2015, , 116-130.	1.3	0