

# Olga Fink

## List of Publications by Year in descending order

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42  
papers

1,402  
citations

430442  
18  
h-index

344852  
36  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1115  
citing authors

#	ARTICLE	IF	CITATIONS
1	Potential, challenges and future directions for deep learning in prognostics and health management applications. Engineering Applications of Artificial Intelligence, 2020, 92, 103678.	4.3	245
2	Combined Fault Location and Classification for Power Transmission Lines Fault Diagnosis With Integrated Feature Extraction. IEEE Transactions on Industrial Electronics, 2018, 65, 561-569.	5.2	168
3	Two Machine Learning Approaches for Short-Term Wind Speed Time-Series Prediction. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 1734-1747.	7.2	124
4	Predicting component reliability and level of degradation with complex-valued neural networks. Reliability Engineering and System Safety, 2014, 121, 198-206.	5.1	92
5	Aircraft Engine Run-to-Failure Dataset under Real Flight Conditions for Prognostics and Diagnostics. Data, 2021, 6, 5.	1.2	80
6	Fusing physics-based and deep learning models for prognostics. Reliability Engineering and System Safety, 2022, 217, 107961.	5.1	80
7	Domain Adaptive Transfer Learning for Fault Diagnosis. , 2019, , .		69
8	Unsupervised transfer learning for anomaly detection: Application to complementary operating condition transfer. Knowledge-Based Systems, 2021, 216, 106816.	4.0	58
9	Missing-Class-Robust Domain Adaptation by Unilateral Alignment. IEEE Transactions on Industrial Electronics, 2021, 68, 663-671.	5.2	46
10	Fault detection based on signal reconstruction with Auto-Associative Extreme Learning Machines. Engineering Applications of Artificial Intelligence, 2017, 57, 105-117.	4.3	30
11	Real-time model calibration with deep reinforcement learning. Mechanical Systems and Signal Processing, 2022, 165, 108284.	4.4	28
12	A Classification Framework for Predicting Components' Remaining Useful Life Based on Discrete-Event Diagnostic Data. IEEE Transactions on Reliability, 2015, 64, 1049-1056.	3.5	25
13	Fuzzy Classification With Restricted Boltzman Machines and Echo-State Networks for Predicting Potential Railway Door System Failures. IEEE Transactions on Reliability, 2015, 64, 861-868.	3.5	24
14	Off-Policy Reinforcement Learning for Efficient and Effective GAN Architecture Search. Lecture Notes in Computer Science, 2020, , 175-192.	1.0	23
15	Novelty detection by multivariate kernel density estimation and growing neural gas algorithm. Mechanical Systems and Signal Processing, 2015, 50-51, 427-436.	4.4	21
16	Decision support system for an intelligent operator of utility tunnel boring machines. Automation in Construction, 2021, 131, 103880.	4.8	21
17	Fully learnable deep wavelet transform for unsupervised monitoring of high-frequency time series. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	21
18	Distributed joint dynamic maintenance and production scheduling in manufacturing systems: Framework based on model predictive control and Benders decomposition. Journal of Manufacturing Systems, 2021, 59, 596-606.	7.6	20

#	ARTICLE	IF	CITATIONS
19	Implicit supervision for fault detection and segmentation of emerging fault types with Deep Variational Autoencoders. Neurocomputing, 2021, 454, 324-324.	3.5	20
20	Predicting time series of railway speed restrictions with time-dependent machine learning techniques. Expert Systems With Applications, 2013, 40, 6033-6040.	4.4	18
21	Temporal signals to images: Monitoring the condition of industrial assets with deep learning image processing algorithms. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2022, 236, 617-627.	0.6	18
22	Multi-agent maintenance scheduling based on the coordination between central operator and decentralized producers in an electricity market. Reliability Engineering and System Safety, 2021, 210, 107495.	5.1	18
23	Assessment of maintenance strategies for railway vehicles using Petri-nets. Transportation Research Procedia, 2017, 27, 205-214.	0.8	17
24	Learning to Calibrate Battery Models in Real-Time with Deep Reinforcement Learning. Energies, 2021, 14, 1361.	1.6	17
25	Feature learning for fault detection in high-dimensional condition monitoring signals. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2020, 234, 104-115.	0.6	15
26	Contrastive Learning for Fault Detection and Diagnostics in the Context of Changing Operating Conditions and Novel Fault Types. Sensors, 2021, 21, 3550.	2.1	13
27	Unsupervised Fault Detection in Varying Operating Conditions. , 2019, , .		12
28	Interpretable Detection of Partial Discharge in Power Lines with Deep Learning. Sensors, 2021, 21, 2154.	2.1	12
29	Uncertainty-Aware Prognosis via Deep Gaussian Process. IEEE Access, 2021, 9, 123517-123527.	2.6	10
30	Integrating Expert Knowledge With Domain Adaptation for Unsupervised Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	2.4	9
31	Quantifying the reliability of fault classifiers. Information Sciences, 2014, 266, 65-74.	4.0	8
32	Maintenance scheduling of manufacturing systems based on optimal price of the network. Reliability Engineering and System Safety, 2022, 217, 108088.	5.1	8
33	Data-Driven Intelligent Predictive Maintenance of Industrial Assets. Women in Engineering and Science, 2020, , 589-605.	0.2	7
34	Hierarchical multi-agent predictive maintenance scheduling for trains using price-based approach. Computers and Industrial Engineering, 2021, 159, 107475.	3.4	6
35	A prescriptive Dirichlet power allocation policy with deep reinforcement learning. Reliability Engineering and System Safety, 2022, 224, 108529.	5.1	5
36	Semi-Markov processes with semi-regenerative states for the availability analysis of chemical process plants with storage units. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2013, 227, 279-289.	0.6	4

#	ARTICLE	IF	CITATIONS
37	Artificial intelligence across company borders. Communications of the ACM, 2022, 65, 34-36.	3.3	4
38	Online sequential extreme learning machines for fault detection. , 2016, , .		3
39	Predicting Potential Railway Operational Disruptions with Echo State Networks. Transportation Research Record, 2013, 2374, 66-72.	1.0	2
40	Anomaly Detection and Classification in Time Series with Kervolutional Neural Networks. , 2020, , .		1
41	Agent-Based Maintenance Decision Support System for Power Grids Operating in Electricity Markets. , 2020, , .		0
42	Improving generalization of deep fault detection models in the presence of mislabeled data. , 2020, , .		0