

Petr Musilek

List of Publications by Citations

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Version: 2024-04-27

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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.

139
papers

1,622
citations

19
h-index

36
g-index

185
ext. papers

2,279
ext. citations

3.6
avg, IF

5.44
L-index

#	Paper	IF	Citations
139	A survey of Knowledge Discovery and Data Mining process models. <i>Knowledge Engineering Review</i> , 2006 , 21, 1-24	2.1	217
138	IoT-based smart homes: A review of system architecture, software, communications, privacy and security. <i>Internet of Things (Netherlands)</i> , 2018 , 1-2, 81-98	6.9	100
137	Economic Optimization of Component Sizing for Residential Battery Storage Systems. <i>Energies</i> , 2017 , 10, 835	3.1	90
136	Energy Harvesting Sources, Storage Devices and System Topologies for Environmental Wireless Sensor Networks: A Review. <i>Sensors</i> , 2018 , 18,	3.8	90
135	Immune programming. <i>Information Sciences</i> , 2006 , 176, 972-1002	7.7	62
134	Dynamic thermal rating of transmission lines: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 91, 600-612	16.2	61
133	Software cost estimation with fuzzy models. <i>ACM SIGAPP Applied Computing Review: A Publication of the Special Interest Group on Applied Computing</i> , 2000 , 8, 24-29	0.7	48
132	Effect of time resolution of meteorological inputs on dynamic thermal rating calculations. <i>IET Generation, Transmission and Distribution</i> , 2011 , 5, 941	2.5	45
131	Optimal Component Sizing for Peak Shaving in Battery Energy Storage System for Industrial Applications. <i>Energies</i> , 2018 , 11, 2048	3.1	45
130	Performance Evaluation of Blockchain Systems: A Systematic Survey. <i>IEEE Access</i> , 2020 , 8, 126927-126950	3.5	36
129	Learning to predict ice accretion on electric power lines. <i>Engineering Applications of Artificial Intelligence</i> , 2012 , 25, 609-617	7.2	30
128	Modelling precipitation cooling of overhead conductors. <i>Electric Power Systems Research</i> , 2011 , 81, 2147-2154	3.5	27
127	Reinforcement Learning-Based Distributed BESS Management for Mitigating Overvoltage Issues in Systems With High PV Penetration. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 2980-2994	10.7	26
126	Spatial Analysis of Thermal Aging of Overhead Transmission Conductors. <i>IEEE Transactions on Power Delivery</i> , 2012 , 27, 1196-1204	4.3	26
125	Quantification of gains and risks of static thermal rating based on typical meteorological year. <i>International Journal of Electrical Power and Energy Systems</i> , 2013 , 44, 227-235	5.1	26
124	A Comprehensive Review of Blockchain Consensus Mechanisms. <i>IEEE Access</i> , 2021 , 9, 43620-43652	3.5	25
123	Differential evolution of fuzzy controller for environmentally-powered wireless sensors. <i>Applied Soft Computing Journal</i> , 2016 , 48, 193-206	7.5	23

122	Review of nature-inspired methods for wake-up scheduling in wireless sensor networks. <i>Swarm and Evolutionary Computation</i> , 2015 , 25, 100-118	9.8	22
121	Assessment of seasonal static thermal ratings of overhead transmission conductors 2011 ,		21
120	Electric power system cost/loss optimization using Dynamic Thermal Rating and linear programming 2010 ,		18
119	Powering Environmental Monitoring Systems in Arctic Regions: A Simulation Study. <i>Elektronika Ir Elektrotechnika</i> , 2014 , 20,	1.7	18
118	Comparative Analysis of Machine Learning Techniques for Temperature Compensation in Microwave Sensors. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 4223-4236	4.1	18
117	Evolutionary Optimization of an Ice Accretion Forecasting System. <i>Monthly Weather Review</i> , 2010 , 138, 2913-2929	2.4	15
116	Using self-organizing maps to analyze object-oriented software measures. <i>Journal of Systems and Software</i> , 2001 , 59, 65-82	3.3	15
115	On the sensitivity of COCOMO II software cost estimation model		15
114	A Temperature-Compensated High-Resolution Microwave Sensor Using Artificial Neural Network. <i>IEEE Microwave and Wireless Components Letters</i> , 2020 , 30, 919-922	2.6	15
113	A High-Resolution Reflective Microwave Planar Sensor for Sensing of Vanadium Electrolyte. <i>Sensors</i> , 2021 , 21,	3.8	14
112	An Ice Accretion Forecasting System (IAFS) for Power Transmission Lines Using Numerical Weather Prediction. <i>Scientific Online Letters on the Atmosphere</i> , 2009 , 5, 25-28	2.1	12
111	K-MEANS CLUSTERING FOR PROBLEMS WITH PERIODIC ATTRIBUTES. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2009 , 23, 721-743	1.1	12
110	Power management with energy harvesting devices 2010 ,		12
109	Towards A Scalable DAG-based Distributed Ledger for Smart Communities 2019 ,		11
108	Forecasting severe ice storms using numerical weather prediction: the March 2010 Newfoundland event. <i>Natural Hazards and Earth System Sciences</i> , 2011 , 11, 587-595	3.9	11
107	Wind power forecasting by an empirical model using NWP outputs 2010 ,		10
106	Precipitation-based conductor cooling model for Dynamic Thermal Rating systems 2009 ,		10
105			10

104	2014,		9
103	2014,		9
102	Energy harvesting simulation for Automatic Arctic monitoring stations 2010,		9
101	Evaluating thermal aging characteristics of electric power transmission lines 2010,		9
100	Using Dynamic Thermal Rating systems to reduce power generation emissions 2011,		9
99	Modeling the Disinfection of Waterborne Bacteria Using Neural Networks. <i>Environmental Engineering Science</i> , 2007 , 24, 471-482	2	9
98	Enhanced learning classifier system for robot navigation 2005,		9
97	Sensitivity analysis of conductor current-temperature calculations 2013,		8
96	Intelligent Energy Management for Environmental Monitoring Systems 2017 , 67-94		8
95	Fuzzy algorithm for intelligent wireless sensors with solar harvesting 2014,		8
94	Clustering numerical weather forecasts to obtain statistical prediction intervals. <i>Meteorological Applications</i> , 2014 , 21, 605-618	2.1	8
93	Identification of critical aging segments and hotspots of power transmission lines 2010,		8
92	Novel Point-to-Point Scan Matching Algorithm Based on Cross-Correlation. <i>Mobile Information Systems</i> , 2016 , 2016, 1-11	1.4	8
91	Optimization of photovoltaic power self-consumption using linear programming 2016,		8
90	Fuzzy logic controller for hybrid renewable energy system with multiple types of storage 2017,		7
89	Bio-inspired Routing Strategies for Wireless Sensor Networks. <i>Intelligent Systems Reference Library</i> , 2015 , 155-181	0.8	7
88	Characterization of a wind flutter generator 2010,		7
87	Statistical modeling of energy production by photovoltaic farms 2010,		7

86	An intelligent weather-based system to support optimal routing of power transmission lines 2010 ,		7
85	ASSESSMENT OF PARKINSON'S DISEASE PROGRESSION USING NEURAL NETWORK AND ANFIS MODELS. <i>Neural Network World</i> , 2016 , 26, 111-128	2.9	7
84	. <i>IEEE Access</i> , 2020 , 8, 131760-131778	3.5	7
83	Comparison of IMU Measurements of Curling Stone Dynamics with a Numerical Model. <i>Procedia Engineering</i> , 2016 , 147, 596-601		7
82	Pressure-based prediction of harvestable energy for powering environmental monitoring systems 2015 ,		6
81	Optimization of Wind Direction Distribution Parameters Using Particle Swarm Optimization. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 15-26	0.4	6
80	Harvesting-aware control of wireless sensor nodes using fuzzy logic and differential evolution 2014		6
79	Immune programming models of <i>Cryptosporidium parvum</i> inactivation by ozone and chlorine dioxide. <i>Information Sciences</i> , 2009 , 179, 1469-1482	7.7	6
78	Quantile Regression and Clustering Models of Prediction Intervals for Weather Forecasts: A Comparative Study. <i>Forecasting</i> , 2019 , 1, 169-188	2.3	6
77	Solar Forecasting Using Remote Solar Monitoring Stations and Artificial Neural Networks 2018 ,		6
76	A probabilistic estimation for dynamic thermal rating of transmission lines 2016 ,		5
75	Temporal Uncertainty of Wind Ramp Predictions Using Probabilistic Forecasting Technique 2016 ,		5
74	Energy Management for Smart Homes State of the Art. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3459	2.6	5
73	Support Vector Regression of multiple predictive models of downward short-wave radiation 2014 ,		5
72	Estimation of wind direction distribution with genetic algorithms 2013 ,		5
71	2014 ,		5
70	Recurrent Neural Network Based Gating for Natural Gas Load Prediction System 2006 ,		5
69	Q-Learning Algorithm for Energy Management in Solar Powered Embedded Monitoring Systems 2018 ,		5

68	Principal Component Analysis for Evaluation of Wind Ramp Event Probability 2014 ,		4
67	Prediction of PV power quality: Total harmonic distortion of current 2013 ,		4
66	Managing the energy-for-data exchange in remote monitoring systems 2013 ,		4
65	Self organizing maps as a tool for software analysis		4
64	Identification of Pleonastic It Using the Web. <i>Journal of Artificial Intelligence Research</i> ,34, 339-389	4	4
63	Applications of Generative Adversarial Networks in Anomaly Detection: A Systematic Literature Review. <i>IEEE Access</i> , 2021 , 9, 161003-161029	3.5	4
62	Distributed Optimal Power Flow for Electric Power Systems with High Penetration of Distributed Energy Resources 2019 ,		4
61	Resilience Enhancement Strategies For and Through Electric Vehicles. <i>Sustainable Cities and Society</i> , 2022 , 80, 103788	10.1	4
60	Scan Matching by Cross-Correlation and Differential Evolution. <i>Electronics (Switzerland)</i> , 2019 , 8, 856	2.6	3
59	Fuzzy logic controller for large, grid-integrated wind farm under variable wind speeds 2016 ,		3
58	Optimal energy management of residential PV/HESS using evolutionary fuzzy control 2017 ,		3
57	Economy of residential photovoltaic generation and battery energy storage in Alberta, Canada 2017 ,		3
56	Pressure-based forecasting of next-day solar energy availability using evolutionary fuzzy rules 2015		3
55	Analysis of wind ramp events using their conditional probabilities from PCA 3D tables 2015 ,		3
54	Energy Availability Forecasting for Harvesting-aware Wireless Sensor Networks: Analysis of Energy Demand of a Predictor Based on Evolutionary Fuzzy Rules 2015 ,		3
53	Discriminative parameter learning of general Bayesian network classifiers		3
52	A comparison between fuzzy and probabilistic estimation of Dynamic Thermal Rating of transmission lines 2016 ,		3
51	IoT-based MPPT Controller for Photovoltaic Array 2018 ,		3

50	2018,		3
49	Probabilistic forecasting of dynamic thermal line rating with temporal correlations. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 134, 107443	5.1	3
48	LP-based predictive energy management system for residential PV/BESS 2017,		2
47	Learning uncertainty models from weather forecast performance databases using quantile regression 2013,		2
46	Neural network models of <i>Cryptosporidium parvum</i> inactivation by chlorine dioxide and ozone. <i>Journal of Environmental Engineering and Science</i> , 2007 , 6, 477-482	0.8	2
45	Neural Networks and Fuzzy Systems 2000 , 137-160		2
44	FUZZY NEURAL NETWORKS AND COGNITIVE MODELING. <i>International Journal of General Systems</i> , 2000 , 29, 7-28	2.1	2
43	Reliability-as-a-Service Usage of Electric Vehicles: Suitability Analysis for Different Types of Buildings. <i>Energies</i> , 2022 , 15, 665	3.1	2
42	MASP [An Enhanced Model of Fault Type Identification in Object-Oriented Software Engineering. <i>Journal of Advanced Computational Intelligence and Intelligent Informatics</i> , 2006 , 10, 312-322	0.4	2
41	Optimization of Wireless Sensor Node Parameters by Differential Evolution and Particle Swarm Optimization. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 13-22	0.4	2
40	Fuzzy Neural Networks 2000 , 161-184		2
39	Forecasting Photovoltaic Power Production using a Deep Learning Sequence to Sequence Model with Attention 2020,		2
38	Distributed Learning Applications in Power Systems: A Review of Methods, Gaps, and Challenges. <i>Energies</i> , 2021 , 14, 3654	3.1	2
37	Day-Ahead Dynamic Thermal Line Rating Using Numerical Weather Prediction 2019,		2
36	Distributed Optimization for Distribution Grids With Stochastic DER Using Multi-Agent Deep Reinforcement Learning. <i>IEEE Access</i> , 2021 , 9, 63059-63072	3.5	2
35	Reinforcement learning-driven local transactive energy market for distributed energy resources. <i>Energy and AI</i> , 2022 , 8, 100150	12.6	2
34	A Simulation Framework for Energy Harvesting in Wireless Sensor Networks: Single Node Architecture Perspective 2019,		1
33	Wireless sensor networks with pressure-based energy forecasting: A simulation study 2016,		1

32	LORI: Linguistically Oriented RDF Interface for Querying Fuzzy Temporal Data. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 337-352	0.4	1
31	Distribution of wind power plants to reduce variability of renewable generation 2014 ,		1
30	Towards prediction of photovoltaic power quality 2013 ,		1
29	Improving the prediction of wind power ramps using texture extraction techniques applied to atmospheric pressure fields. <i>International Journal of Data Science and Analytics</i> , 2017 , 4, 237-250	2	1
28	Ant-based optimal tuning of PID controllers for load frequency control in power systems 2017 ,		1
27	Cuckoo-search optimized fuzzy-logic control of stationary battery storage systems 2017 ,		1
26	Harvesting-Aware Energy Management for Environmental Monitoring WSN. <i>Energies</i> , 2017 , 10, 607	3.1	1
25	Querying RDF Data with Imprecise Time Phrases 2015 ,		1
24	Statistical analysis of environmental measurements for design of energy-efficient monitoring systems 2015 ,		1
23	Neutron-Gamma Classification by Evolutionary Fuzzy Rules and Support Vector Machines 2015 ,		1
22	Estimating Harvestable Solar Energy from Atmospheric Pressure Using Support Vector Regression 2015 ,		1
21	Modeling Forecast Uncertainty Using Fuzzy Clustering. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 287-296	0.4	1
20	Analysis of spatial and seasonal distribution of power transmission line thermal aging 2010 ,		1
19	Selective upgrading of transmission lines using DTCR 2012 ,		1
18	2007 ,		1
17	Human perception of software complexity: knowledge discovery from software data		1
16	Fuzzy situation based navigation of autonomous mobile robot using reinforcement learning 2004 ,		1
15	Fuzzy logic in agent-based game design 2004 ,		1

14	Adaptive fuzzy approach to modeling of operational space for autonomous mobile robots 1998 , 3522, 265		1
13	Federated learning with hyperparameter-based clustering for electrical load forecasting. <i>Internet of Things (Netherlands)</i> , 2022 , 17, 100470	6.9	1
12	Statistical and Nature-Inspired Modeling of Vehicle Flows by Using Finite Mixtures of Simple Circular Normal Distributions. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2020 , 12, 182-194	2.6	1
11	Dimension-Wise Particle Swarm Optimization: Evaluation and Comparative Analysis. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6201	2.6	1
10	Smart renewable energy management system for consumer applications 2016 ,		1
9	Derivative based prediction with look ahead 2016 ,		1
8	Sensitivity analysis of PCA method for wind ramp event detection 2016 ,		1
7	Fairness and Utilitarianism in Allocating Energy to EVs during Power Contingencies Using Modified Division Rules. <i>IEEE Transactions on Sustainable Energy</i> , 2022 , 1-1	8.2	1
6	Simulation of a Daytime-Based Q-Learning Control Strategy for Environmental Harvesting WSN Nodes. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 432-441	0.4	0
5	Performance Analysis of the IOTA DAG-Based Distributed Ledger. <i>ACM Transactions on Modeling and Performance Evaluation of Computing Systems</i> , 2021 , 6, 1-20	0.8	0
4	Conceptual design of controllers for automated modular construction machines. <i>Results in Engineering</i> , 2021 , 10, 100220	3.3	0
3	Optimal Design of Distribution Overhead Powerlines using Genetic Algorithms. <i>IEEE Transactions on Power Delivery</i> , 2021 , 1-1	4.3	0
2	Regional-scale modeling of greenhouse gas fluxes23-55		
1	Intelligent Analysis of Software Maintenance Data 2007 , 14-51		