

# Alex Alexandridis

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6810212/publications.pdf>

Version: 2024-02-01

66  
papers

2,171  
citations

147801

31  
h-index

233421

45  
g-index

66  
all docs

66  
docs citations

66  
times ranked

1941  
citing authors

#	ARTICLE	IF	CITATIONS
1	Time series sales forecasting for short shelf-life food products based on artificial neural networks and evolutionary computing. <i>Journal of Food Engineering</i> , 2006, 75, 196-204.	5.2	154
2	A cellular automata model for forest fire spread prediction: The case of the wildfire that swept through Spetses Island in 1990. <i>Applied Mathematics and Computation</i> , 2008, 204, 191-201.	2.2	138
3	Radial Basis Function Network Training Using a Nonsymmetric Partition of the Input Space and Particle Swarm Optimization. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2013, 24, 219-230.	11.3	104
4	A Fast and Efficient Algorithm for Training Radial Basis Function Neural Networks Based on a Fuzzy Partition of the Input Space. <i>Industrial &amp; Engineering Chemistry Research</i> , 2002, 41, 751-759.	3.7	98
5	Wind turbine power curve modeling using radial basis function neural networks and tabu search. <i>Renewable Energy</i> , 2021, 163, 2137-2152.	8.9	93
6	A new algorithm for online structure and parameter adaptation of RBF networks. <i>Neural Networks</i> , 2003, 16, 1003-1017.	5.9	82
7	Prediction of high weight polymers glass transition temperature using RBF neural networks. <i>Computational and Theoretical Chemistry</i> , 2005, 716, 193-198.	1.5	80
8	A new algorithm for developing dynamic radial basis function neural network models based on genetic algorithms. <i>Computers and Chemical Engineering</i> , 2004, 28, 209-217.	3.8	76
9	Metaheuristic search in smart grid: A review with emphasis on planning, scheduling and power flow optimization applications. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 145, 111072.	16.4	66
10	A two-stage evolutionary algorithm for variable selection in the development of RBF neural network models. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2005, 75, 149-162.	3.5	65
11	A fast training algorithm for RBF networks based on subtractive clustering. <i>Neurocomputing</i> , 2003, 51, 501-505.	5.9	64
12	A classification technique based on radial basis function neural networks. <i>Advances in Engineering Software</i> , 2006, 37, 218-221.	3.8	61
13	A Neural Network Approach for the Correlation of Exhaust Emissions from a Diesel Engine with Diesel Fuel Properties. <i>Energy &amp; Fuels</i> , 2003, 17, 1259-1265.	5.1	60
14	A GIS based operational system for wildland fire crisis management I. Mathematical modelling and simulation. <i>Applied Mathematical Modelling</i> , 2004, 28, 389-410.	4.2	58
15	Mechanical behaviour of fresh concrete. <i>Cement and Concrete Research</i> , 1981, 11, 323-339.	11.0	54
16	Wildland fire spread modelling using cellular automata: evolution in large-scale spatially heterogeneous environments under fire suppression tactics. <i>International Journal of Wildland Fire</i> , 2011, 20, 633.	2.4	53
17	Cooperative learning for radial basis function networks using particle swarm optimization. <i>Applied Soft Computing Journal</i> , 2016, 49, 485-497.	7.2	51
18	EVOLVING RBF NEURAL NETWORKS FOR ADAPTIVE SOFT-SENSOR DESIGN. <i>International Journal of Neural Systems</i> , 2013, 23, 1350029.	5.2	46

#	ARTICLE	IF	CITATIONS
19	Nonlinear adaptive model predictive control based on self-correcting neural network models. <i>AICHE Journal</i> , 2005, 51, 2495-2506.	3.6	44
20	A neural network approach to the prediction of diesel fuel lubricity. <i>Fuel</i> , 2002, 81, 1243-1250.	6.4	43
21	Large Earthquake Occurrence Estimation Based on Radial Basis Function Neural Networks. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 5443-5453.	6.3	40
22	A GIS based operational system for wildland fire crisis management II. System architecture and case studies. <i>Applied Mathematical Modelling</i> , 2004, 28, 411-425.	4.2	38
23	A medical diagnostic tool based on radial basis function classifiers and evolutionary simulated annealing. <i>Journal of Biomedical Informatics</i> , 2014, 49, 61-72.	4.3	38
24	Writer independent offline signature verification based on asymmetric pixel relations and unrelated training-testing datasets. <i>Expert Systems With Applications</i> , 2019, 125, 14-32.	7.6	38
25	A particle swarm optimization approach in printed circuit board thermal design. <i>Integrated Computer-Aided Engineering</i> , 2017, 24, 143-155.	4.6	37
26	Coverage and k-Coverage Optimization in Wireless Sensor Networks Using Computational Intelligence Methods: A Comparative Study. <i>Electronics (Switzerland)</i> , 2020, 9, 675.	3.1	36
27	A neural network approach for compressive strength prediction in cement-based materials through the study of pressure-stimulated electrical signals. <i>Construction and Building Materials</i> , 2012, 30, 294-300.	7.2	35
28	Model predictive control for systems with fast dynamics using inverse neural models. <i>ISA Transactions</i> , 2018, 72, 161-177.	5.7	35
29	A Novel RBF Neural Network Training Methodology to Predict Toxicity to <i>Vibrio Fischeri</i> . <i>Molecular Diversity</i> , 2006, 10, 213-221.	3.9	32
30	Robot Motion Control via an EEG-Based Brain-Computer Interface by Using Neural Networks and Alpha Brainwaves. <i>Electronics (Switzerland)</i> , 2019, 8, 1387.	3.1	32
31	VARIABLE SELECTION IN NONLINEAR MODELING BASED ON RBF NETWORKS AND EVOLUTIONARY COMPUTATION. <i>International Journal of Neural Systems</i> , 2010, 20, 365-379.	5.2	31
32	Active vehicle suspension control using road preview model predictive control and radial basis function networks. <i>Applied Soft Computing Journal</i> , 2022, 120, 108646.	7.2	31
33	A Radial Basis Function network training algorithm using a non-symmetric partition of the input space – Application to a Model Predictive Control configuration. <i>Advances in Engineering Software</i> , 2011, 42, 830-837.	3.8	29
34	A Fast and Efficient Method for Training Categorical Radial Basis Function Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017, 28, 2831-2836.	11.3	29
35	Modelling of nonlinear process dynamics using Kohonen's neural networks, fuzzy systems and Chebyshev series. <i>Computers and Chemical Engineering</i> , 2002, 26, 479-486.	3.8	21
36	A cooperative particle swarm optimization approach for tuning an MPC-based quadrotor trajectory tracking scheme. <i>Aerospace Science and Technology</i> , 2022, 127, 107725.	4.8	18

#	ARTICLE	IF	CITATIONS
37	Multiobjective Optimization Algorithms for Wireless Sensor Networks. <i>Wireless Communications and Mobile Computing</i> , 2020, 2020, 1-5.	1.2	17
38	Modeling biogas production from anaerobic wastewater treatment plants using radial basis function networks and differential evolution. <i>Computers and Chemical Engineering</i> , 2022, 157, 107629.	3.8	17
39	A highly accurate differential evolution particle swarm optimization algorithm for the construction of initial value problem solvers. <i>Engineering Optimization</i> , 2018, 50, 1364-1379.	2.6	15
40	A neural network approach for the prediction of the refractive index based on experimental data. <i>Journal of Materials Science</i> , 2012, 47, 883-891.	3.7	12
41	An offset-free neural controller based on a non-extrapolating scheme for approximating the inverse process dynamics. <i>Journal of Process Control</i> , 2013, 23, 968-979.	3.3	12
42	An enhanced decentralized artificial immune-based strategy formulation algorithm for swarms of autonomous vehicles. <i>Applied Soft Computing Journal</i> , 2020, 89, 106135.	7.2	11
43	Multi-Ship Control and Collision Avoidance Using MPC and RBF-Based Trajectory Predictions. <i>Sensors</i> , 2021, 21, 6959.	3.8	10
44	WSN Open Source Development Platform: Application to Green Learning. <i>Procedia Engineering</i> , 2011, 25, 1049-1052.	1.2	7
45	Nonlinear control of a DC-motor based on radial basis function neural networks. , 2011, , .		7
46	An Inverse Neural Controller Based on the Applicability Domain of RBF Network Models. <i>Sensors</i> , 2018, 18, 315.	3.8	7
47	A New Algorithm for developing Dynamic Radial Basis Function Neural Network Models based on Genetic Algorithms. <i>Computer Aided Chemical Engineering</i> , 2002, , 949-954.	0.5	6
48	A comparative study on the use of the extended-Cauchy dispersion equation for fitting refractive index data in crystals. <i>Optical and Quantum Electronics</i> , 2013, 45, 837-859.	3.3	6
49	Short-Term Electric Load Forecasting With Sparse Coding Methods. <i>IEEE Access</i> , 2021, 9, 102847-102861.	4.2	6
50	Particle swarm optimization for complex nonlinear optimization problems. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	5
51	Control of processes with multiple steady states using MPC and RBF neural networks. <i>Computer Aided Chemical Engineering</i> , 2011, , 698-702.	0.5	3
52	An evolutionary-based approach in RBF neural network training. , 2012, , .		3
53	Non-destructive assessment of the three-point-bending strength of mortar beams using radial basis function neural networks. <i>Computers and Concrete</i> , 2015, 16, 919-932.	0.7	3
54	An RBF online learning scheme for non-stationary environments based on fuzzy means and Givens rotations. <i>Neurocomputing</i> , 2022, 501, 370-386.	5.9	3

#	ARTICLE	IF	CITATIONS
55	Adaptive control of continuous pulp digesters based on radial basis function neural network models. Computer Aided Chemical Engineering, 2003, 14, 995-1000.	0.5	2
56	MODELING AND CONTROL OF CONTINUOUS DIGESTERS USING THE PLS METHODOLOGY. Chemical Engineering Communications, 2004, 191, 1271-1284.	2.6	2
57	Music genre classification using radial basis function networks and particle swarm optimization. , 2014, , .		2
58	Vessel Trajectory Prediction Using Radial Basis Function Neural Networks. , 2021, , .		2
59	Development of nonlinear quantitative structure-activity relationships using rbf networks and evolutionary computing. Computer Aided Chemical Engineering, 2004, , 265-270.	0.5	1
60	Direct versus indirect neural control based on radial basis function networks. , 2014, , .		1
61	Long-term time-series prediction using radial basis function neural networks. AIP Conference Proceedings, 2015, , .	0.4	1
62	NEURAL NETWORK MODEL IDENTIFICATION BASED ON THE SUBTRACTIVE CLUSTERING METHOD. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 349-354.	0.4	0
63	A PRIORITIZED MULTIOBJECTIVE MPC CONFIGURATION USING ADAPTIVE RBF NETWORKS AND EVOLUTIONARY COMPUTATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 150-155.	0.4	0
64	An adaptive soft-sensor for non-destructive cement-based material testing, through the use of RBF networks. , 2012, , .		0
65	Preface of the "Symposium on computational intelligence: Theory and applications on mathematical modeling, optimization and control" AIP Conference Proceedings, 2015, , .	0.4	0
66	Discussion on: Power Flow Control of a Doubly-Fed Induction Machine Coupled to a Flywheel. European Journal of Control, 2005, 11, 222-228.	2.6	0