

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 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 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 | Short-Term Electric Load Forecasting With Sparse Coding Methods. <i>IEEE Access</i> , 2021, 9, 102847-102861. | 4.2 | 6 |
| 7 | 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 |
| 8 | Vessel Trajectory Prediction Using Radial Basis Function Neural Networks. , 2021, , . | | 2 |
| 9 | Multi-Ship Control and Collision Avoidance Using MPC and RBF-Based Trajectory Predictions. <i>Sensors</i> , 2021, 21, 6959. | 3.8 | 10 |
| 10 | Multiobjective Optimization Algorithms for Wireless Sensor Networks. <i>Wireless Communications and Mobile Computing</i> , 2020, 2020, 1-5. | 1.2 | 17 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | Model predictive control for systems with fast dynamics using inverse neural models. <i>ISA Transactions</i> , 2018, 72, 161-177. | 5.7 | 35 |
| 16 | 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 |
| 17 | An Inverse Neural Controller Based on the Applicability Domain of RBF Network Models. <i>Sensors</i> , 2018, 18, 315. | 3.8 | 7 |
| 18 | A particle swarm optimization approach in printed circuit board thermal design. <i>Integrated Computer-Aided Engineering</i> , 2017, 24, 143-155. | 4.6 | 37 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | A Fast and Efficient Method for Training Categorical Radial Basis Function Networks. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 2831-2836. | 11.3 | 29 |
| 20 | Particle swarm optimization for complex nonlinear optimization problems. AIP Conference Proceedings, 2016, , . | 0.4 | 5 |
| 21 | Cooperative learning for radial basis function networks using particle swarm optimization. Applied Soft Computing Journal, 2016, 49, 485-497. | 7.2 | 51 |
| 22 | Preface of the "Symposium on computational intelligence: Theory and applications on mathematical modeling, optimization and control" AIP Conference Proceedings, 2015, , . | 0.4 | 0 |
| 23 | Long-term time-series prediction using radial basis function neural networks. AIP Conference Proceedings, 2015, , . | 0.4 | 1 |
| 24 | Non-destructive assessment of the three-point-bending strength of mortar beams using radial basis function neural networks. Computers and Concrete, 2015, 16, 919-932. | 0.7 | 3 |
| 25 | Direct versus indirect neural control based on radial basis function networks. , 2014, , . | | 1 |
| 26 | Music genre classification using radial basis function networks and particle swarm optimization. , 2014, , . | | 2 |
| 27 | A medical diagnostic tool based on radial basis function classifiers and evolutionary simulated annealing. Journal of Biomedical Informatics, 2014, 49, 61-72. | 4.3 | 38 |
| 28 | Large Earthquake Occurrence Estimation Based on Radial Basis Function Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 5443-5453. | 6.3 | 40 |
| 29 | A comparative study on the use of the extended-Cauchy dispersion equation for fitting refractive index data in crystals. Optical and Quantum Electronics, 2013, 45, 837-859. | 3.3 | 6 |
| 30 | An offset-free neural controller based on a non-extrapolating scheme for approximating the inverse process dynamics. Journal of Process Control, 2013, 23, 968-979. | 3.3 | 12 |
| 31 | Radial Basis Function Network Training Using a Nonsymmetric Partition of the Input Space and Particle Swarm Optimization. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 219-230. | 11.3 | 104 |
| 32 | EVOLVING RBF NEURAL NETWORKS FOR ADAPTIVE SOFT-SENSOR DESIGN. International Journal of Neural Systems, 2013, 23, 1350029. | 5.2 | 46 |
| 33 | An adaptive soft-sensor for non-destructive cement-based material testing, through the use of RBF networks. , 2012, , . | | 0 |
| 34 | An evolutionary-based approach in RBF neural network training. , 2012, , . | | 3 |
| 35 | A neural network approach for compressive strength prediction in cement-based materials through the study of pressure-stimulated electrical signals. Construction and Building Materials, 2012, 30, 294-300. | 7.2 | 35 |
| 36 | A neural network approach for the prediction of the refractive index based on experimental data. Journal of Materials Science, 2012, 47, 883-891. | 3.7 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | 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 |
| 38 | WSN Open Source Development Platform: Application to Green Learning. <i>Procedia Engineering</i> , 2011, 25, 1049-1052. | 1.2 | 7 |
| 39 | Nonlinear control of a DC-motor based on radial basis function neural networks. , 2011, , . | | 7 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | A classification technique based on radial basis function neural networks. <i>Advances in Engineering Software</i> , 2006, 37, 218-221. | 3.8 | 61 |
| 45 | 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 |
| 46 | 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 |
| 47 | A PRIORITIZED MULTIOBJECTIVE MPC CONFIGURATION USING ADAPTIVE RBF NETWORKS AND EVOLUTIONARY COMPUTATION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005, 38, 150-155. | 0.4 | 0 |
| 48 | 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 |
| 49 | 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 |
| 50 | Nonlinear adaptive model predictive control based on self-correcting neural network models. <i>AIChE Journal</i> , 2005, 51, 2495-2506. | 3.6 | 44 |
| 51 | Discussion on: Power Flow Control of a Doubly-Fed Induction Machine Coupled to a Flywheel. <i>European Journal of Control</i> , 2005, 11, 222-228. | 2.6 | 0 |
| 52 | 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 |
| 53 | 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 |
| 54 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 55 | MODELING AND CONTROL OF CONTINUOUS DIGESTERS USING THE PLS METHODOLOGY. Chemical Engineering Communications, 2004, 191, 1271-1284. | 2.6 | 2 |
| 56 | Development of nonlinear quantitative structure-activity relationships using rbf networks and evolutionary computing. Computer Aided Chemical Engineering, 2004, , 265-270. | 0.5 | 1 |
| 57 | A fast training algorithm for RBF networks based on subtractive clustering. Neurocomputing, 2003, 51, 501-505. | 5.9 | 64 |
| 58 | A new algorithm for online structure and parameter adaptation of RBF networks. Neural Networks, 2003, 16, 1003-1017. | 5.9 | 82 |
| 59 | A Neural Network Approach for the Correlation of Exhaust Emissions from a Diesel Engine with Diesel Fuel Properties. Energy & Fuels, 2003, 17, 1259-1265. | 5.1 | 60 |
| 60 | 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 |
| 61 | A New Algorithm for developing Dynamic Radial Basis Function Neural Network Models based on Genetic Algorithms. Computer Aided Chemical Engineering, 2002, , 949-954. | 0.5 | 6 |
| 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 Fast and Efficient Algorithm for Training Radial Basis Function Neural Networks Based on a Fuzzy Partition of the Input Space. Industrial & Engineering Chemistry Research, 2002, 41, 751-759. | 3.7 | 98 |
| 64 | Modelling of nonlinear process dynamics using Kohonen's neural networks, fuzzy systems and Chebyshev series. Computers and Chemical Engineering, 2002, 26, 479-486. | 3.8 | 21 |
| 65 | A neural network approach to the prediction of diesel fuel lubricity. Fuel, 2002, 81, 1243-1250. | 6.4 | 43 |
| 66 | Mechanical behaviour of fresh concrete. Cement and Concrete Research, 1981, 11, 323-339. | 11.0 | 54 |