

# Pedro M Ferreira

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8315190/publications.pdf>

Version: 2024-02-01

52  
papers

1,209  
citations

567281  
15  
h-index

395702  
33  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1215  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Neural networks based predictive control for thermal comfort and energy savings in public buildings. Energy and Buildings, 2012, 55, 238-251.   | 6.7 | 353       |
| 2  | Neural network models in greenhouse air temperature prediction. Neurocomputing, 2002, 43, 51-75.  | 5.9 | 146       |
| 3  | A Comparison of Energy Consumption Prediction Models Based on Neural Networks of a Bioclimatic Building. Energies, 2016, 9, 57.   | 3.1 | 83        |
| 4  | Performance of intertidal topography video monitoring of a meso-tidal reflective beach in South Portugal. Ocean Dynamics, 2011, 61, 1521-1540.  | 2.2 | 55        |
| 5  | Seismic detection using support vector machines. Neurocomputing, 2014, 135, 273-283.  | 5.9 | 53        |
| 6  | An Intelligent Weather Station. Sensors, 2015, 15, 31005-31022.   | 3.8 | 39        |
| 7  | The IMBPC HVAC system: A complete MBPC solution for existing HVAC systems. Energy and Buildings, 2016, 120, 145-158.  | 6.7 | 39        |
| 8  | Exploiting the separability of linear and nonlinear parameters in radial basis function networks. , 0, , .  |     | 30        |
| 9  | A Neural Network Based Intelligent Predictive Sensor for Cloudiness, Solar Radiation and Air Temperature. Sensors, 2012, 12, 15750-15777.   | 3.8 | 28        |
| 10 | A convex hull-based data selection method for data driven models. Applied Soft Computing Journal, 2016, 47, 515-533.  | 7.2 | 28        |
| 11 | Wireless Sensors and IoT Platform for Intelligent HVAC Control. Applied Sciences (Switzerland), 2018, 8, 370.   | 2.5 | 28        |
| 12 | Online Sliding-Window Methods for Process Model Adaptation. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3012-3020.  | 4.7 | 25        |
| 13 | Neural network PMV estimation for model-based predictive control of HVAC systems. , 2012, , .   |     | 25        |
| 14 | Evaluation of LoRa Technology in Flooding Prevention Scenarios. Sensors, 2020, 20, 4034.  | 3.8 | 24        |
| 15 | Evolutionary Multiobjective Neural Network Models Identification: Evolving Task-Optimised Models. Studies in Computational Intelligence, 2011, , 21-53.   | 0.9 | 23        |
| 16 | Genetic assisted selection of RBF model structures for greenhouse inside air temperature prediction. , 0, , .   |     | 20        |
| 17 | EVOLUTIONARY MULTIOBJECTIVE DESIGN OF RADIAL BASIS FUNCTION NETWORKS FOR GREENHOUSE ENVIRONMENTAL CONTROL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 63-68.      | 0.4 | 15        |
| 18 | Model based predictive control of HVAC systems for human thermal comfort and energy consumption minimisation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 236-241. | 0.4 | 15        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Solar radiation prediction using RBF Neural Networks and cloudiness indices. , 2006, , .  |     | 13        |
| 20 | CHOICE OF RBF MODEL STRUCTURE FOR PREDICTING GREENHOUSE INSIDE AIR TEMPERATURE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 91-96.                   | 0.4 | 12        |
| 21 | A Randomized Approximation Convex Hull Algorithm for High Dimensions. IFAC-PapersOnLine, 2015, 48, 123-128.   | 0.9 | 11        |
| 22 | Discrete Model-Based Greenhouse Environmental Control using the Branch & Bound Algorithm. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 2937-2943.     | 0.4 | 10        |
| 23 | Evolving RBF Predictive Models to Forecast the Portuguese Electricity Consumption. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 414-419.              | 0.4 | 9         |
| 24 | Implementation of an intelligent sensor for measurement and prediction of solar radiation and atmospheric temperature. , 2011, , .  |     | 9         |
| 25 | Energy savings in HVAC systems using discrete model-based predictive control. , 2012, , .   |     | 9         |
| 26 | A simple algorithm for convex hull determination in high dimensions. , 2013, , .  |     | 9         |
| 27 | PVM-based intelligent predictive control of HVAC systems. IFAC-PapersOnLine, 2016, 49, 371-376.   | 0.9 | 9         |
| 28 | A neural-network based intelligent weather station. , 2015, , .   |     | 8         |
| 29 | Optimized Design of Neural Networks for a River Water Level Prediction System. Sensors, 2021, 21, 6504.   | 3.8 | 8         |
| 30 | TRAINING NEURAL NETWORKS AND NEURO-FUZZY SYSTEMS: A UNIFIED VIEW. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 415-420.                               | 0.4 | 7         |
| 31 | Application of computational intelligence methods to greenhouse environmental modelling. , 2008, , .  |     | 7         |
| 32 | Neural Network based HVAC Predictive Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 3617-3622.   | 0.4 | 7         |
| 33 | DESIGN AND IMPLEMENTATION OF A REAL-TIME DATA ACQUISITION SYSTEM FOR THE IDENTIFICATION OF DYNAMIC TEMPERATURE MODELS IN A HYDROPONIC GREENHOUSE. Acta Horticulturae, 2000, , 191-198.          | 0.2 | 5         |
| 34 | Predicting the Greenhouse Inside Air Temperature with RBF Neural Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 67-72.                        | 0.4 | 5         |
| 35 | Forecasting the Portuguese Electricity Consumption using Least-Squares Support Vector Machines. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 411-416. | 0.4 | 5         |
| 36 | Neural networks assisted diagnosis of ischemic CVA's through CT scan. , 2007, , .   |     | 4         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Improving the Identification of RBF Predictive Models to Forecast the Portuguese Electricity Consumption*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 208-213. | 0.4 | 4         |
| 38 | MOGA Design of Temperature and Relative Humidity Models for Predictive Thermal Comfort.1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 116-121.                  | 0.4 | 3         |
| 39 | Towards a more analytical training of neural networks and neuro-fuzzy systems. , 2011, , .   |     | 3         |
| 40 | Improving a neural networks based HVAC predictive control approach. , 2015, , .  |     | 3         |
| 41 | Unsupervised entropy-based selection of data sets for improved model fitting. , 2016, , .  |     | 3         |
| 42 | A Comparison of Four Data Selection Methods for Artificial Neural Networks and Support Vector Machines. IFAC-PapersOnLine, 2017, 50, 11227-11232.  | 0.9 | 3         |
| 43 | Cloud and Clear Sky Pixel Classification in Ground-Based All-Sky Hemispherical Digital Images*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 273-278.            | 0.4 | 2         |
| 44 | Exploiting the functional training approach in Radial Basis Function networks. , 2011, , .   |     | 2         |
| 45 | Extending the functional training approach for B-splines. , 2012, , .  |     | 2         |
| 46 | A Support Vector Machine Seismic Detector for Early-Warning Applications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 405-410.                                  | 0.4 | 2         |
| 47 | On-line sliding-window Levenberg-Marquardt methods for neural network models. , 2007, , .  |     | 1         |
| 48 | Improving the Diagnosis of Ischemic CVA's through CT Scan with Neural Networks. , 2007, , .  |     | 1         |
| 49 | Towards online operation of a RBF neural network model to forecast the Portuguese electricity consumption. , 2011, , .   |     | 1         |
| 50 | MOGA Design of Neural Network Predictors of Inside Temperature in Public Buildings. Studies in Computational Intelligence, 2009, , 35-61.  | 0.9 | 1         |
| 51 | Exploiting the functional training approach in B-Splines. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 127-132.  | 0.4 | 0         |
| 52 | A New Convex Hull, Sliding Window Based Online Adaptation Method. IFAC-PapersOnLine, 2018, 51, 211-216.  | 0.9 | 0         |