

Antnio E Ruano

List of Publications by Citations

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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.

124 papers	1,894 citations	22 h-index	39 g-index
145 ext. papers	2,302 ext. citations	3 avg, IF	5 L-index

#	Paper	IF	Citations
124	Neural networks based predictive control for thermal comfort and energy savings in public buildings. <i>Energy and Buildings</i> , 2012 , 55, 238-251	7	278
123	Prediction of building's temperature using neural networks models. <i>Energy and Buildings</i> , 2006 , 38, 682-694	6.94	134
122	Neural network models in greenhouse air temperature prediction. <i>Neurocomputing</i> , 2002 , 43, 51-75	5.4	113
121	NILM Techniques for Intelligent Home Energy Management and Ambient Assisted Living: A Review. <i>Energies</i> , 2019 , 12, 2203	3.1	86
120	Fast Line, Arc/Circle and Leg Detection from Laser Scan Data in a Player Driver		74
119	A Comparison of Energy Consumption Prediction Models Based on Neural Networks of a Bioclimatic Building. <i>Energies</i> , 2016 , 9, 57	3.1	60
118	Soft-sensing estimation of plant effluent concentrations in a biological wastewater treatment plant using an optimal neural network. <i>Expert Systems With Applications</i> , 2016 , 63, 8-19	7.8	53
117	Fuzzy rule extraction by bacterial memetic algorithms. <i>International Journal of Intelligent Systems</i> , 2009 , 24, 312-339	8.4	48
116	Performance of intertidal topography video monitoring of a meso-tidal reflective beach in South Portugal. <i>Ocean Dynamics</i> , 2011 , 61, 1521-1540	2.3	45
115	Seismic detection using support vector machines. <i>Neurocomputing</i> , 2014 , 135, 273-283	5.4	43
114	Real-time parameter estimation of dynamic temperature models for greenhouse environmental control. <i>Control Engineering Practice</i> , 1997 , 5, 1473-1481	3.9	42
113	Wavelet group method of data handling for fault prediction in electrical power insulators. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 123, 106269	5.1	39
112	Nonlinear identification of aircraft gas-turbine dynamics. <i>Neurocomputing</i> , 2003 , 55, 551-579	5.4	37
111	The IMBPC HVAC system: A complete MBPC solution for existing HVAC systems. <i>Energy and Buildings</i> , 2016 , 120, 145-158	7	33
110	Application of HVAC Systems with Control Based on PMV Index in University Buildings with Complex Topology. <i>IFAC-PapersOnLine</i> , 2018 , 51, 20-25	0.7	31
109	An Intelligent Weather Station. <i>Sensors</i> , 2015 , 15, 31005-22	3.8	29
108	GPR target detection using a neural network classifier designed by a multi-objective genetic algorithm. <i>Applied Soft Computing Journal</i> , 2019 , 79, 310-325	7.5	25

107	Exploiting the separability of linear and nonlinear parameters in radial basis function networks		25
106	A neural network based intelligent predictive sensor for cloudiness, solar radiation and air temperature. <i>Sensors</i> , 2012 , 12, 15750-77	3.8	23
105	A convex hull-based data selection method for data driven models. <i>Applied Soft Computing Journal</i> , 2016 , 47, 515-533	7.5	22
104	An Economic Model-Based Predictive Control to Manage the Users' Thermal Comfort in a Building. <i>Energies</i> , 2017 , 10, 321	3.1	22
103	Online Sliding-Window Methods for Process Model Adaptation. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2009 , 58, 3012-3020	5.2	22
102	Development of a temperature control model used in HVAC systems in school spaces in Mediterranean climate. <i>Building and Environment</i> , 2009 , 44, 871-877	6.5	21
101	A soft-computing methodology for noninvasive time-spatial temperature estimation. <i>IEEE Transactions on Biomedical Engineering</i> , 2008 , 55, 572-80	5	21
100	Intelligent Control Systems using Computational Intelligence Techniques 2005 ,		20
99	Supervised training algorithms for B-Spline neural networks and neuro-fuzzy systems. <i>International Journal of Systems Science</i> , 2002 , 33, 689-711	2.3	19
98	Neural network PMV estimation for model-based predictive control of HVAC systems 2012 ,		18
97	An overview of nonlinear identification and control with neural networks37-88		17
96	On the possibility of non-invasive multilayer temperature estimation using soft-computing methods. <i>Ultrasonics</i> , 2010 , 50, 32-43	3.5	16
95	Genetic assisted selection of RBF model structures for greenhouse inside air temperature prediction		16
94	Wireless Sensors and IoT Platform for Intelligent HVAC Control. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 370	2.6	14
93	Computational intelligence in control. <i>Annual Reviews in Control</i> , 2014 , 38, 233-242	10.3	14
92	Evolutionary Multiobjective Neural Network Models Identification: Evolving Task-Optimised Models. <i>Studies in Computational Intelligence</i> , 2011 , 21-53	0.8	14
91	Comparison of different methods of measuring similarity in physiologic time series. <i>IFAC-PapersOnLine</i> , 2017 , 50, 11005-11010	0.7	13
90	Anytime information processing based on fuzzy and neural network models		13

89	An intelligent support system for automatic detection of cerebral vascular accidents from brain CT images. <i>Computer Methods and Programs in Biomedicine</i> , 2017 , 146, 109-123	6.9	12
88	Non-invasive temperature prediction of in vitro therapeutic ultrasound signals using neural networks. <i>Medical and Biological Engineering and Computing</i> , 2006 , 44, 111-6	3.1	12
87	Estimating fuzzy membership functions parameters by the Levenberg-Marquardt algorithm		12
86	Genetic and Bacterial Programming for B-Spline Neural Networks Design. <i>Journal of Advanced Computational Intelligence and Intelligent Informatics</i> , 2007 , 11, 220-231	0.4	12
85	An Artificial Neural Network (ANN) model to predict the electric load profile for an HVAC system. <i>IFAC-PapersOnLine</i> , 2018 , 51, 26-31	0.7	12
84	Model based predictive control of HVAC systems for human thermal comfort and energy consumption minimisation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 236-241		11
83	A NEURAL NETWORK SEISMIC DETECTOR. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 304-309		10
82	A Randomized Approximation Convex Hull Algorithm for High Dimensions. <i>IFAC-PapersOnLine</i> , 2015 , 48, 123-128	0.7	9
81	EVOLUTIONARY MULTIOBJECTIVE DESIGN OF RADIAL BASIS FUNCTION NETWORKS FOR GREENHOUSE ENVIRONMENTAL CONTROL. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 63-68		9
80	CHOICE OF RBF MODEL STRUCTURE FOR PREDICTING GREENHOUSE INSIDE AIR TEMPERATURE. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 91-96		9
79	Neuro-genetic PID autotuning: time invariant case. <i>Mathematics and Computers in Simulation</i> , 2000 , 51, 287-300	3.3	9
78	Neural network approach to collision free path-planning for robotic manipulators. <i>International Journal of Systems Science</i> , 2006 , 37, 555-564	2.3	8
77	Application of Levenberg-Marquardt method to the training of spiking neural networks		8
76	Control and soft sensing strategies for a wastewater treatment plant using a neuro-genetic approach. <i>Computers and Chemical Engineering</i> , 2021 , 144, 107146	4	8
75	Classifier Design by a Multi-Objective Genetic Algorithm Approach for GPR Automatic Target Detection. <i>IFAC-PapersOnLine</i> , 2018 , 51, 187-192	0.7	8
74	PVM-based intelligent predictive control of HVAC systems. <i>IFAC-PapersOnLine</i> , 2016 , 49, 371-376	0.7	7
73	Applications of NILM Techniques to Energy Management and Assisted Living. <i>IFAC-PapersOnLine</i> , 2019 , 52, 164-171	0.7	7
72	A simple algorithm for convex hull determination in high dimensions 2013 ,		7

71	2011,		7
70	Evolving RBF Predictive Models to Forecast the Portuguese Electricity Consumption. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 414-419		7
69	Application of computational intelligence methods to greenhouse environmental modelling 2008 ,		7
68	Discrete Model-Based Greenhouse Environmental Control using the Branch & Bound Algorithm. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 2937-2943		7
67	Reactive local navigation		7
66	On the Use of Artificial Neural Networks for Biomedical Applications. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 433-451	0.4	7
65	A neural-network based intelligent weather station 2015 ,		6
64	2012,		6
63	Solar radiation prediction using RBF Neural Networks and cloudiness indices 2006 ,		6
62	Supervised training algorithms for B-spline neural networks and fuzzy systems		6
61	B-splines neural network assisted PID autotuning. <i>International Journal of Adaptive Control and Signal Processing</i> , 1999 , 13, 291-306	2.8	6
60	The IMBPC HVAC system: Wireless Sensors and IoT Platform. <i>IFAC-PapersOnLine</i> , 2018 , 51, 1-8	0.7	6
59	HVAC Systems Applied in University Buildings with Control Based on PMV and aPMV Indexes. <i>Inventions</i> , 2019 , 4, 3	2.9	5
58	Neural Network based HVAC Predictive Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 3617-3622		5
57	Bacterial Memetic Algorithm for Fuzzy Rule Base Optimization 2006 ,		5
56	Performance comparison of parallel architectures for real-time control. <i>Microprocessors and Microsystems</i> , 1999 , 23, 325-336	2.4	5
55	Neuro-genetic non-invasive temperature estimation: intensity and spatial prediction. <i>Artificial Intelligence in Medicine</i> , 2008 , 43, 127-39	7.4	4
54	Fuzzy Rule Base Extraction by the Improved Bacterial Memetic Algorithm 2008 ,		4

53	Feature extraction for moving objects tracking system in indoor environments. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004 , 37, 96-101		4
52	TRAINING NEURAL NETWORKS AND NEURO-FUZZY SYSTEMS: A UNIFIED VIEW. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 415-420		4
51	Short-Term Forecasting Photovoltaic Solar Power for Home Energy Management Systems. <i>Inventions</i> , 2021 , 6, 12	2.9	4
50	Improving a neural networks based HVAC predictive control approach 2015 ,		3
49	A Comparison of Four Data Selection Methods for Artificial Neural Networks and Support Vector Machines. <i>IFAC-PapersOnLine</i> , 2017 , 50, 11227-11232	0.7	3
48	2011 ,		3
47	MOGA Design of Temperature and Relative Humidity Models for Predictive Thermal Comfort.1. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 116-121		3
46	Improving the Identification of RBF Predictive Models to Forecast the Portuguese Electricity Consumption*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 208-213		3
45	Design of B-spline neural networks using a bacterial programming approach		3
44	Design of Ensemble Forecasting Models for Home Energy Management Systems. <i>Energies</i> , 2021 , 14, 7664	3.1	3
43	Optimized Design of Neural Networks for a River Water Level Prediction System. <i>Sensors</i> , 2021 , 21,	3.8	3
42	A Radial Basis Function classifier for the automatic diagnosis of Cerebral Vascular Accidents 2016 ,		3
41	Extending the functional training approach for B-splines 2012 ,		2
40	Forecasting the Portuguese Electricity Consumption using Least-Squares Support Vector Machines. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 411-416		2
39	Exploiting the functional training approach in Radial Basis Function networks 2011 ,		2
38	Cloud and Clear Sky Pixel Classification in Ground-Based All-Sky Hemispherical Digital Images*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 273-278		2
37	NARX structures for non-invasive temperature estimation in non-homogeneous media 2007 ,		2
36	Neural networks assisted diagnosis of ischemic CVA's through CT scan 2007 ,		2

35	Application of Computation Intelligence Techniques for Energy Load and Price Forecast in some States of USA 2007 ,		2
34	Completely Supervised Training Algorithms for B-spline Neural Networks and Neuro-fuzzy Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2001 , 34, 608-613		2
33	Predicting the Greenhouse Inside Air Temperature with RBF Neural Networks. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2001 , 34, 67-72		2
32	Identification of Aircraft Gas-Turbine Dynamics using B-splines Neural Networks. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2000 , 33, 123-128		2
31	Neuro-genetic PID autotuning 2001 ,		2
30	Automatic tuning of controllers using a neural-genetic system. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1999 , 32, 5176-5181		2
29	A Survey On Computational Intelligence Techniques For Non Intrusive Load Monitoring 2020 ,		2
28	Forecasting Electricity Demand in Households using MOGA-designed Artificial Neural Networks. <i>IFAC-PapersOnLine</i> , 2020 , 53, 8225-8230	0.7	2
27	Home Energy Management Systems with Branch-and-Bound Model-Based Predictive Control Techniques. <i>Energies</i> , 2021 , 14, 5852	3.1	2
26	Intelligent non-invasive modeling of ultrasound-induced temperature in tissue phantoms. <i>Biomedical Signal Processing and Control</i> , 2017 , 33, 141-150	4.9	1
25	A Support Vector Machine Seismic Detector for Early-Warning Applications. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 405-410		1
24	Improving the Diagnosis of Ischemic CVA's through CT Scan with Neural Networks 2007 ,		1
23	Application of the Levenberg-Marquardt method to the training of spiking neural networks 2006 ,		1
22	SINGLE BLACK-BOX MODELS FOR TWO-POINT NON-INVASIVE TEMPERATURE PREDICTION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 135-140		1
21	TEMPERATURE MODELLING OF AN HOMOGENEOUS MEDIUM USING GENETICALLY SELECTED RBF(LIC). <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 119-124		1
20	Accelerating multi-objective control system design using a neuro-genetic approach		1
19	An efficient parallel implementation of a least squares problem. <i>Computing Systems in Engineering: an International Journal</i> , 1995 , 6, 313-318		1
18	Non-Intrusive Load Monitoring of Household Devices Using a Hybrid Deep Learning Model through Convex Hull-Based Data Selection. <i>Energies</i> , 2022 , 15, 1215	3.1	1

17	MOGA Design of Neural Network Predictors of Inside Temperature in Public Buildings. <i>Studies in Computational Intelligence</i> , 2009 , 35-61	0.8	1
16	Home Energy Management System in an Algarve Residence. First Results. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 332-341	0.2	1
15	A New Convex Hull, Sliding Window Based Online Adaptation Method for Fixed-Structure Radial Basis Function Neural Networks. <i>Studies in Computational Intelligence</i> , 2019 , 103-112	0.8	1
14	Pulse Transition Time Method for Unobtrusive Blood Pressure Estimation. <i>IFMBE Proceedings</i> , 2020 , 1477-1484	0.1	1
13	Forecasting Electricity Consumption in Residential Buildings for Home Energy Management Systems. <i>Communications in Computer and Information Science</i> , 2020 , 313-326	0.3	1
12	On-Line Operation of an Intelligent Seismic Detector. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 531-542	0.4	1
11	Exploiting the Functional Training Approach in Takagi-Sugeno Neuro-fuzzy Systems. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 543-559	0.4	1
10	Multi-objective genetic algorithm applied to the structure selection of RBFNN temperature estimators 2005 , 506-509		0
9	Recent Techniques Used in Home Energy Management Systems: A Review. <i>Energies</i> , 2022 , 15, 2866	3.1	0
8	Exploiting the functional training approach in B-Splines. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 127-132		
7	Non-invasive tissue temperature evaluation during application of therapeutic ultrasound: precise time-spatial non-linear modelling 2007 , 69-72		
6	Application of Radial Basis Function Neural Networks to a Greenhouse Inside Air Temperature Model. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2000 , 33, 137-142		
5	Non-invasive modelling of ultrasound-induced temperature in tissues: a b-splines neural network solution. <i>IFAC-PapersOnLine</i> , 2016 , 49, 297-302	0.7	
4	A New Convex Hull, Sliding Window Based Online Adaptation Method. <i>IFAC-PapersOnLine</i> , 2018 , 51, 211-216	0.7	
3	A Non Linear Autoregressive Neural Network Model for Forecasting Appliance Power Consumption. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 759-768	0.2	
2	A Model-Based Predictive Control Approach for Home Energy Management Systems. First Results. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 735-747	0.2	
1	Low frequency-based energy disaggregation using sliding windows and deep learning. <i>E3S Web of Conferences</i> , 2022 , 351, 01020	0.5	