

# Francisco J MartÃ- nez-De-PisÃ³n

## List of Publications by Year in descending order

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87  
papers

3,094  
citations

279487

23  
h-index

161609

54  
g-index

93  
all docs

93  
docs citations

93  
times ranked

4056  
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparative study of six model complexity metrics to search for parsimonious models with GAparsimony R Package. <i>Neurocomputing</i> , 2021, 452, 317-332.	3.5	6
2	PSO-PARSIMONY: A New Methodology for Searching for Accurate and Parsimonious Models with Particle Swarm Optimization. Application for Predicting the Force-Displacement Curve in T-stub Steel Connections. <i>Lecture Notes in Computer Science</i> , 2021, , 15-26.	1.0	2
3	Active learning methodologies in STEM degrees jeopardized by COVID19. , 2021, , .		3
4	An advanced methodology to enhance energy efficiency in a hospital cooling-water system. <i>Journal of Building Engineering</i> , 2021, 43, 102839.	1.6	12
5	Solar E-Cooking with Low-Power Solar Home Systems for Sub-Saharan Africa. <i>Sustainability</i> , 2021, 13, 12241.	1.6	3
6	BQC: A free web service to quality control solar irradiance measurements across Europe. <i>Solar Energy</i> , 2020, 211, 1-10.	2.9	6
7	Verification of deterministic solar forecasts. <i>Solar Energy</i> , 2020, 210, 20-37.	2.9	142
8	Technical projects with social commitment for teaching-learning intervention in STEM students. , 2020, , .		6
9	A novel hybrid strip finishing process to improve mechanical properties and reduce energy consumption. <i>International Journal of Material Forming</i> , 2019, 12, 27-43.	0.9	0
10	Analysis of Spanish Radiometric Networks with the Novel Bias-Based Quality Control (BQC) Method. <i>Sensors</i> , 2019, 19, 2483.	2.1	2
11	Technicalâ€œeconomic assessment of redesigned reinforced concrete preâ€œslabs: Incorporating corrugated cardboard. <i>Structural Concrete</i> , 2019, 20, 1340-1349.	1.5	2
12	Hybrid methodology based on Bayesian optimization and GA-PARSIMONY to search for parsimony models by combining hyperparameter optimization and feature selection. <i>Neurocomputing</i> , 2019, 354, 20-26.	3.5	20
13	Effects of Design and Construction on the Carbon Footprint of Reinforced Concrete Columns in Residential Buildings. <i>Materiales De Construccion</i> , 2019, 69, 193.	0.2	4
14	Optimal solar tracking strategy to increase irradiance in the plane of array under cloudy conditions: A study across Europe. <i>Solar Energy</i> , 2018, 163, 122-130.	2.9	38
15	Evaluation of global horizontal irradiance estimates from ERA5 and COSMO-REA6 reanalyses using ground and satellite-based data. <i>Solar Energy</i> , 2018, 164, 339-354.	2.9	245
16	Evaluation of a novel GA-based methodology for model structure selection: The GA-PARSIMONY. <i>Neurocomputing</i> , 2018, 271, 9-17.	3.5	16
17	Metamodel-based design optimization of structural one-way slabs based on deep learning neural networks to reduce environmental impact. <i>Engineering Structures</i> , 2018, 155, 91-101.	2.6	51
18	Quantifying the amplified bias of PV system simulations due to uncertainties in solar radiation estimates. <i>Solar Energy</i> , 2018, 176, 663-677.	2.9	35

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19	Stacking ensemble with parsimonious base models to improve generalization capability in the characterization of steel bolted components. Applied Soft Computing Journal, 2018, 70, 737-750.	4.1	27
20	Sources of uncertainty in annual global horizontal irradiance data. Solar Energy, 2018, 170, 873-884.	2.9	14
21	An Algorithm Based on Satellite Observations to Quality Control Ground Solar Sensors: Analysis of Spanish Meteorological Networks. Lecture Notes in Computer Science, 2018, , 609-621.	1.0	0
22	YAP regulates cell mechanics by controlling focal adhesion assembly. Nature Communications, 2017, 8, 15321.	5.8	431
23	Quality control of global solar radiation data with satellite-based products. Solar Energy, 2017, 158, 49-62.	2.9	60
24	The value of day-ahead forecasting for photovoltaics in the Spanish electricity market. Solar Energy, 2017, 158, 140-146.	2.9	49
25	Extensive validation of CM SAF surface radiation products over Europe. Remote Sensing of Environment, 2017, 199, 171-186.	4.6	80
26	Practical methodology for validating constitutive models for the simulation of rubber compounds in extrusion processes. International Journal of Advanced Manufacturing Technology, 2017, 90, 2377-2387.	1.5	6
27	Estimation of Daily Global Horizontal Irradiation Using Extreme Gradient Boosting Machines. Advances in Intelligent Systems and Computing, 2017, , 105-113.	0.5	1
28	Improving hotel room demand forecasting with a hybrid GA-SVR methodology based on skewed data transformation, feature selection and parsimony tuning. Logic Journal of the IGPL, 2017, 25, 877-889.	1.3	3
29	Benchmark of algorithms for solar clear-sky detection. Journal of Renewable and Sustainable Energy, 2016, 8, .	0.8	13
30	Minimizing greenhouse gas emissions and costs for structures with flat slabs. Journal of Cleaner Production, 2016, 137, 922-930.	4.6	31
31	Hotel Reservation Forecasting Using Flexible Soft Computing Techniques: A Case of Study in a Spanish Hotel. International Journal of Information Technology and Decision Making, 2016, 15, 1211-1234.	2.3	3
32	Review of photovoltaic power forecasting. Solar Energy, 2016, 136, 78-111.	2.9	828
33	Impact of atmospheric components on solar clear-sky models at different elevation: Case study Canary Islands. Energy Conversion and Management, 2016, 109, 122-129.	4.4	18
34	Smart baseline models for solar irradiation forecasting. Energy Conversion and Management, 2016, 108, 539-548.	4.4	42
35	Human stem cell decorated nanocellulose threads for biomedical applications. Biomaterials, 2016, 82, 208-220.	5.7	127
36	Heart valve tissue engineering: how far is the bedside from the bench?. Expert Reviews in Molecular Medicine, 2015, 17, e16.	1.6	32

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37	Hybrid Modelling of Multilayer Perceptron Ensembles for Predicting the Response of Bolted Lap Joints. Logic Journal of the IGPL, 2015, 23, 451-462.	1.3	0
38	Estimation of solar global irradiation in remote areas. Journal of Renewable and Sustainable Energy, 2015, 7, 023136.	0.8	14
39	Solar irradiation mapping with exogenous data from support vector regression machines estimations. Energy Conversion and Management, 2015, 100, 380-390.	4.4	48
40	Composting of Spent Mushroom Substrate and Winery Sludge. Compost Science and Utilization, 2015, 23, 58-65.	1.2	15
41	Towards the hybridization of gas-fired power plants: A case study of Algeria. Renewable and Sustainable Energy Reviews, 2015, 51, 116-124.	8.2	15
42	GA-PARSIMONY: A GA-SVR approach with feature selection and parameter optimization to obtain parsimonious solutions for predicting temperature settings in a continuous annealing furnace. Applied Soft Computing Journal, 2015, 35, 13-28.	4.1	42
43	Generation of daily global solar irradiation with support vector machines for regression. Energy Conversion and Management, 2015, 96, 277-286.	4.4	59
44	A numerical-informational approach for characterising the ductile behaviour of the T-stub component. Part 1: Refined finite element model and test validation. Engineering Structures, 2015, 82, 236-248.	2.6	20
45	A numerical-informational approach for characterising the ductile behaviour of the T-stub component. Part 2: Parsimonious soft-computing-based metamodel. Engineering Structures, 2015, 82, 249-260.	2.6	26
46	On-line Soft Sensor Based on Regression Models and Feature Selection Techniques for Predicting Rubber Properties in Mixture Processes. Lecture Notes in Management and Industrial Engineering, 2015, , 235-245.	0.3	0
47	Current Status and Future Trends of the Evaluation of Solar Global Irradiation using Soft-Computing-Based Models. Advances in Environmental Engineering and Green Technologies Book Series, 2015, , 1-22.	0.3	0
48	Downscaling of global solar irradiation in complex areas in R. Journal of Renewable and Sustainable Energy, 2014, 6, 063105.	0.8	21
49	Advanced predictive system using artificial intelligence for cleaning of steel coils. Ironmaking and Steelmaking, 2014, 41, 262-269.	1.1	7
50	Overall models based on ensemble methods for predicting continuous annealing furnace temperature settings. Ironmaking and Steelmaking, 2014, 41, 51-60.	1.1	11
51	Methodology based on genetic optimisation to develop overall parsimony models for predicting temperature settings on annealing furnace. Ironmaking and Steelmaking, 2014, 41, 87-98.	1.1	14
52	Towards downscaling of aerosol gridded dataset for improving solar resource assessment, an application to Spain. Renewable Energy, 2014, 71, 534-544.	4.3	10
53	Growth of Human Pluripotent Stem Cells Using Functional Human Extracellular Matrix. Methods in Molecular Biology, 2014, 1307, 39-60.	0.4	3
54	Parsimonious Support Vector Machines Modelling for Set Points in Industrial Processes Based on Genetic Algorithm Optimization. Advances in Intelligent Systems and Computing, 2014, , 1-10.	0.5	6

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55	Evaluation and improvement of empirical models of global solar irradiation: Case study northern Spain. <i>Renewable Energy</i> , 2013, 60, 604-614.	4.3	43
56	Decision support model for one-way floor slab design: A sustainable approach. <i>Automation in Construction</i> , 2013, 35, 460-470.	4.8	25
57	Selección de forjados unidireccionales con criterios técnicos, económicos y sostenibles. <i>Informes De La Construcción</i> , 2013, 65, 183-194.	0.1	1
58	Combining genetic algorithms and the finite element method to improve steel industrial processes. <i>Journal of Applied Logic</i> , 2012, 10, 298-308.	1.1	7
59	Modelling a Skin-Pass Rolling Process by Means of Data Mining Techniques and Finite Element Method. <i>Journal of Iron and Steel Research International</i> , 2012, 19, 43-49.	1.4	13
60	Mining association rules from time series to explain failures in a hot-dip galvanizing steel line. <i>Computers and Industrial Engineering</i> , 2012, 63, 22-36.	3.4	27
61	Comparative analysis of learning and meta-learning algorithms for creating models for predicting the probable alcohol level during the ripening of grape berries. <i>Computers and Electronics in Agriculture</i> , 2012, 80, 54-62.	3.7	15
62	Multilayer-Perceptron Network Ensemble Modeling with Genetic Algorithms for the Capacity of Bolted Lap Joint. <i>Lecture Notes in Computer Science</i> , 2012, , 545-556.	1.0	2
63	Application of Genetic Algorithms to Optimize a Truncated Mean k-Nearest Neighbours Regressor for Hotel Reservation Forecasting. <i>Lecture Notes in Computer Science</i> , 2012, , 79-90.	1.0	1
64	Using Genetic Algorithms to Optimize the Material Behaviour Model in Finite Element Models of Processes with Cyclic Loads. <i>Journal of Strain Analysis for Engineering Design</i> , 2011, 46, 143-159.	1.0	20
65	Characterization of subcortical structures during deep brain stimulation utilizing support vector machines. , 2011, 2011, 7949-52.		15
66	Optimising annealing process on hot dip galvanising line based on robust predictive models adjusted with genetic algorithms. <i>Ironmaking and Steelmaking</i> , 2011, 38, 218-228.	1.1	14
67	Realistic modelling and optimisation of steel section cooling process. <i>Ironmaking and Steelmaking</i> , 2011, 38, 17-27.	1.1	1
68	Optimising tension levelling process by means of genetic algorithms and finite element method. <i>Ironmaking and Steelmaking</i> , 2011, 38, 45-52.	1.1	9
69	Predictive modelling in grape berry weight during maturation process: comparison of data mining, statistical and artificial intelligence techniques. <i>Spanish Journal of Agricultural Research</i> , 2011, 9, 1156.	0.3	16
70	Comparison of models created for the prediction of the mechanical properties of galvanized steel coils. <i>Journal of Intelligent Manufacturing</i> , 2010, 21, 403-421.	4.4	18
71	Prediction models for calculating bolted connections using data mining techniques and the finite element method. <i>Engineering Structures</i> , 2010, 32, 3018-3027.	2.6	21
72	Fine tuning straightening process using genetic algorithms and finite element methods. <i>Ironmaking and Steelmaking</i> , 2010, 37, 119-125.	1.1	14

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73	Optimum model for predicting temperature settings on hot dip galvanising line. Ironmaking and Steelmaking, 2010, 37, 187-194.	1.1	6
74	Control Model for an Elastomer Extrusion Process Obtained via a Comparative Analysis of Data Mining and Artificial Intelligence Techniques. Polymer-Plastics Technology and Engineering, 2010, 49, 779-790.	1.9	3
75	Overall model of the dynamic behaviour of the steel strip in an annealing heating furnace on a hot-dip galvanizing line. Revista De Metalurgia, 2010, 46, 405-420.	0.1	6
76	Application to Bankruptcy Prediction in Banks. , 2010, , 427-439.		0
77	Analysis of rail cooling strategies through numerical simulation with instant calculation of thermal expansion coefficient. Revista De Metalurgia, 2010, 46, 308-319.	0.1	1
78	Combining regression trees and the finite element method to define stress models of highly non-linear mechanical systems. Journal of Strain Analysis for Engineering Design, 2009, 44, 491-502.	1.0	22
79	Modelling of an elastomer profile extrusion process using support vector machines (SVM). Journal of Materials Processing Technology, 2008, 197, 161-169.	3.1	15
80	Reduce of adherence problems in galvanised processes through data mining techniques. Revista De Metalurgia, 2007, 43, .	0.1	3
81	Improvement and optimisation of hot dip galvanising line using neural networks and genetic algorithms. Ironmaking and Steelmaking, 2006, 33, 344-352.	1.1	14
82	TAO-robust backpropagation learning algorithm. Neural Networks, 2005, 18, 191-204.	3.3	47
83	Outlier Detection and Data Cleaning in Multivariate Non-Normal Samples: The PAELLA Algorithm. Data Mining and Knowledge Discovery, 2004, 9, 171-187.	2.4	19
84	Makerspaces in Higher Education: the UR-Maker experience at the University of La Rioja. , 0, , .		5
85	Methodology based on micro-projects in DIY desktop machines for educational purposes in engineering degrees. , 0, , .		1
86	Assessment of microproject-based teaching/learning (MicroPBL) experience in industrial engineering degrees. , 0, , .		0
87	Active learning and social commitment projects as a teaching-learning intervention in engineering degrees. , 0, , .		1