Alpha V PernÃ-a-Espinoza

List of Publications by Year
in descending order

42	444	687363 13	752698 20
papers	citations	h-index	g-index

46	46	46	454
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A comparative study of six model complexity metrics to search for parsimonious models with GAparsimony R Package. Neurocomputing, 2021, 452, 317-332.	5.9	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. Lecture Notes in Computer Science, 2021, , 15-26.	1.3	2
3	Active learning methodologies in STEM degrees jeopardized by COVID19. , 2021, , .		3
4	A Versatile Open-Source Printhead for Low-Cost 3D Microextrusion-Based Bioprinting. Polymers, 2020, 12, 2346.	4.5	14
5	Technical projects with social commitment for teaching-learning intervention in STEM students. , 2020, , .		6
6	A novel hybrid strip finishing process to improve mechanical properties and reduce energy consumption. International Journal of Material Forming, 2019, 12, 27-43.	2.0	0
7	Technicalâ€economic assessment of redesigned reinforced concrete preâ€slabs: Incorporating corrugated cardboard. Structural Concrete, 2019, 20, 1340-1349.	3.1	2
8	Atmospheric pressure air plasma treatment to improve the 3D printing of polyoxymethylene. Plasma Processes and Polymers, 2019, 16, e1900020.	3.0	7
9	Efficient Fabrication of Polycaprolactone Scaffolds for Printing Hybrid Tissue-Engineered Constructs. Materials, 2019, 12, 613.	2.9	14
10	Effects of Design and Construction on the Carbon Footprint of Reinforced Concrete Columns in Residential Buildings. Materiales De Construccion, 2019, 69, 193.	0.7	4
11	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.	7.2	27
12	Accurate Calibration in Multi-Material 3D Bioprinting for Tissue Engineering. Materials, 2018, 11, 1402.	2.9	44
13	Implementing a technically and economically viable system for recording data inside concrete. Construction and Building Materials, 2017, 157, 860-872.	7.2	4
14	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.	3.0	6
15	Searching Parsimonious Solutions with GA-PARSIMONY and XGBoost in High-Dimensional Databases. Advances in Intelligent Systems and Computing, 2017, , 201-210.	0.6	6
16	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.	1.5	3
17	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.	3.9	3
18	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.	7.2	42

#	Article	IF	Citations
19	Microproject-based teaching/learning methodology focused on emerging technologies and international entities cooperation. , 2015, , .		2
20	Data mining teaching throughout cards game competition. , 2015, , .		0
21	Towards Improving the Applicability of Non-parametric Multiple Comparisons to Select the Best Soft Computing Models in Rubber Extrusion Industry. Advances in Intelligent Systems and Computing, 2014, , 171-180.	0.6	1
22	Combining genetic algorithms and the finite element method to improve steel industrial processes. Journal of Applied Logic, 2012, 10, 298-308.	1.1	7
23	Modelling a Skin-Pass Rolling Process by Means of Data Mining Techniques and Finite Element Method. Journal of Iron and Steel Research International, 2012, 19, 43-49.	2.8	13
24	Realistic modelling and optimisation of steel section cooling process. Ironmaking and Steelmaking, 2011, 38, 17-27.	2.1	1
25	Optimising tension levelling process by means of genetic algorithms and finite element method. Ironmaking and Steelmaking, 2011, 38, 45-52.	2.1	9
26	Predictive modelling in grape berry weight during maturation process: comparison of data mining, statistical and artificial intelligence techniques. Spanish Journal of Agricultural Research, 2011, 9, 1156.	0.6	16
27	Genetic Algorithms Combined with the Finite Elements Method as an Efficient Methodology for the Design of Tapered Roller Bearings. Advances in Intelligent and Soft Computing, 2011, , 243-252.	0.2	0
28	Prediction models for calculating bolted connections using data mining techniques and the finite element method. Engineering Structures, 2010, 32, 3018-3027.	5.3	21
29	Fine tuning straightening process using genetic algorithms and finite element methods. Ironmaking and Steelmaking, 2010, 37, 119-125.	2.1	14
30	Optimum model for predicting temperature settings on hot dip galvanising line. Ironmaking and Steelmaking, 2010, 37, 187-194.	2.1	6
31	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
32	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.	0.5	6
33	Analysis of rail cooling strategies through numerical simulation with instant calculation of thermal expansion coefficient. Revista De Metalurgia, 2010, 46, 308-319.	0.5	1
34	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.	1.8	22
35	Modelling of an elastomer profile extrusion process using support vector machines (SVM). Journal of Materials Processing Technology, 2008, 197, 161-169.	6.3	15
36	A neural network-based approach for optimising rubber extrusion lines. International Journal of Computer Integrated Manufacturing, 2007, 20, 828-837.	4.6	26

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37	TAO-robust backpropagation learning algorithm. Neural Networks, 2005, 18, 191-204.	5.9	47
38	Steel annealing furnace robust neural network model. Ironmaking and Steelmaking, 2005, 32, 418-426.	2.1	23
39	Makerspaces in Higher Education: the UR-Maker experience at the University of La Rioja. , 0, , .		5
40	Methodology based on micro-projects in DIY desktop machines for educational purposes in engineering degrees. , 0, , .		1
41	Assessment of microproject-based teaching/learning (MicroPBL) experience in industrial engineering degrees. , 0, , .		0
42	Active learning and social commitment projects as a teaching-learning intervention in engineering degrees. , 0, , .		1