# 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 | TAO-robust backpropagation learning algorithm. Neural Networks, 2005, 18, 191-204. | 5.9 | 47 |
| 2 | Accurate Calibration in Multi-Material 3D Bioprinting for Tissue Engineering. Materials, 2018, 11, 1402. | 2.9 | 44 |
| 3 | 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 |
| 4 | 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 |
| 5 | A neural network-based approach for optimising rubber extrusion lines. International Journal of Computer Integrated Manufacturing, 2007, 20, 828-837. | 4.6 | 26 |
| 6 | Steel annealing furnace robust neural network model. Ironmaking and Steelmaking, 2005, 32, 418-426. | 2.1 | 23 |
| 7 | 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 |
| 8 | Prediction models for calculating bolted connections using data mining techniques and the finite element method. Engineering Structures, 2010, 32, 3018-3027. | 5.3 | 21 |
| 9 | 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 |
| 10 | Modelling of an elastomer profile extrusion process using support vector machines (SVM). Journal of Materials Processing Technology, 2008, 197, 161-169. | 6.3 | 15 |
| 11 | Fine tuning straightening process using genetic algorithms and finite element methods. Ironmaking and Steelmaking, 2010, 37, 119-125. | 2.1 | 14 |
| 12 | Efficient Fabrication of Polycaprolactone Scaffolds for Printing Hybrid Tissue-Engineered Constructs. Materials, 2019, 12, 613. | 2.9 | 14 |
| 13 | A Versatile Open-Source Printhead for Low-Cost 3D Microextrusion-Based Bioprinting. Polymers, 2020, 12, 2346. | 4.5 | 14 |
| 14 | 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 |
| 15 | Optimising tension levelling process by means of genetic algorithms and finite element method. Ironmaking and Steelmaking, 2011, 38, 45-52. | 2.1 | 9 |
| 16 | Combining genetic algorithms and the finite element method to improve steel industrial processes. Journal of Applied Logic, 2012, 10, 298-308. | 1.1 | 7 |
| 17 | Atmospheric pressure air plasma treatment to improve the 3D printing of polyoxymethylene. Plasma Processes and Polymers, 2019, 16, e1900020. | 3.0 | 7 |
| 18 | Optimum model for predicting temperature settings on hot dip galvanising line. Ironmaking and Steelmaking, 2010, 37, 187-194. | 2.1 | 6 |

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|---|---|---|---|
| 19 | 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 |
| 20 | Searching Parsimonious Solutions with GA-PARSIMONY and XGBoost in High-Dimensional Databases. Advances in Intelligent Systems and Computing, 2017, , 201-210. | 0.6 | 6 |
| 21 | Technical projects with social commitment for teaching-learning intervention in STEM students. , 2020, , . | | 6 |
| 22 | 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 |
| 23 | 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 |
| 24 | Makerspaces in Higher Education: the UR-Maker experience at the University of La Rioja. , 0, , . | | 5 |
| 25 | Implementing a technically and economically viable system for recording data inside concrete. Construction and Building Materials, 2017, 157, 860-872. | 7.2 | 4 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | 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 |
| 30 | Active learning methodologies in STEM degrees jeopardized by COVID19. , 2021, , . | | 3 |
| 31 | Technicalâ€economic assessment of redesigned reinforced concrete preâ€slabs: Incorporating corrugated cardboard. Structural Concrete, 2019, 20, 1340-1349. | 3.1 | 2 |
| 32 | 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 |
| 33 | Microproject-based teaching/learning methodology focused on emerging technologies and international entities cooperation. , 2015, , . | | 2 |
| 34 | Realistic modelling and optimisation of steel section cooling process. Ironmaking and Steelmaking, 2011, 38, 17-27. | 2.1 | 1 |
| 35 | 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 |
| 36 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Methodology based on micro-projects in DIY desktop machines for educational purposes in engineering degrees. , 0, , . | | 1 |
| 38 | Active learning and social commitment projects as a teaching-learning intervention in engineering degrees. , 0, , . | | 1 |
| 39 | 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 |
| 40 | 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 |
| 41 | Data mining teaching throughout cards game competition. , 2015, , . | | 0 |
| 42 | Assessment of microproject-based teaching/learning (MicroPBL) experience in industrial engineering degrees. , 0, , . | | 0 |