

Fernando Sanchez-Lasheras

List of Publications by Year in descending order

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Version: 2024-02-01

113
papers

2,677
citations

159585

30
h-index

197818

49
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116
all docs

116
docs citations

116
times ranked

2637
citing authors

#	ARTICLE	IF	CITATIONS
1	Time Series Analysis for the COMEX Gold Spot Price Forecasting by Using NARX DE/SVR and DE/GPR Techniques. <i>Advances in Intelligent Systems and Computing</i> , 2022, , 145-154.	0.6	0
2	Time Series Forecasting of Gold Prices with the Help of Its Decomposition and Multivariate Adaptive Regression Splines. <i>Advances in Intelligent Systems and Computing</i> , 2022, , 135-144.	0.6	0
3	Computer vision syndrome in healthcare workers using video display terminals: an exploration of the risk factors. <i>Journal of Advanced Nursing</i> , 2022, 78, 2095-2110.	3.3	13
4	A New Algorithm for Multivariate Genome Wide Association Studies Based on Differential Evolution and Extreme Learning Machines. <i>Mathematics</i> , 2022, 10, 1024.	2.2	1
5	GASVeM: A New Machine Learning Methodology for Multi-SNP Analysis of GWAS Data Based on Genetic Algorithms and Support Vector Machines. <i>Mathematics</i> , 2021, 9, 654.	2.2	7
6	Overview and Choice of Artificial Intelligence Approaches for Night-Time Adaptive Optics Reconstruction. <i>Mathematics</i> , 2021, 9, 1220.	2.2	2
7	Hybrid algorithm for the classification of prostate cancer patients of the MCC-Spain study based on support vector machines and genetic algorithms. <i>Neurocomputing</i> , 2021, 452, 386-394.	5.9	3
8	A Multivariate Approach to Time Series Forecasting of Copper Prices with the Help of Multiple Imputation by Chained Equations and Multivariate Adaptive Regression Splines. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 691-701.	0.6	1
9	Time Series Analysis for the COMEX Copper Spot Price by Using Support Vector Regression. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 702-708.	0.6	0
10	MACHINE LEARNING METHODOLOGIES IN THE FRAMEWORK OF A DOCTORAL THESIS IN THE FIELD OF GENOME-WIDE ASSOCIATION STUDIES. , 2021, , .		0
11	Predicting the Future-Big Data and Machine Learning. <i>Energies</i> , 2021, 14, 8041.	3.1	1
12	MATHEMATICAL DIFFICULTIES OF FIRST YEAR UNIVERSITY STUDENTS. , 2021, , .		0
13	Zirconia vs. Titanium Dental Implants: Primary Stability In-Vitro Analysis. <i>Materials</i> , 2021, 14, 7886.	2.9	4
14	Detection of outliers in pollutant emissions from the Soto de Ribera coal-fired power plant using functional data analysis: a case study in northern Spain. <i>Environmental Science and Pollution Research</i> , 2020, 27, 8-20.	5.3	4
15	Genetic algorithm based on support vector machines for computer vision syndrome classification in health personnel. <i>Neural Computing and Applications</i> , 2020, 32, 1239-1248.	5.6	11
16	A hybrid DE optimized wavelet kernel SVR-based technique for algal atypical proliferation forecast in La Barca reservoir: A case study. <i>Journal of Computational and Applied Mathematics</i> , 2020, 366, 112417.	2.0	19
17	Identification of gender differences in the factors influencing shoulders, neck and upper limb MSD by means of multivariate adaptive regression splines (MARS). <i>Applied Ergonomics</i> , 2020, 82, 102981.	3.1	23
18	Evolution and forecasting of PM10 concentration at the Port of Gijon (Spain). <i>Scientific Reports</i> , 2020, 10, 11716.	3.3	11

#	ARTICLE	IF	CITATIONS
19	Predicting Benzene Concentration Using Machine Learning and Time Series Algorithms. Mathematics, 2020, 8, 2205.	2.2	6
20	An Intervention Based on Identifying Topics That Students Have Difficulties with. Mathematics, 2020, 8, 2220.	2.2	2
21	Prediction of Health-Related Leave Days among Workers in the Energy Sector by Means of Genetic Algorithms. Energies, 2020, 13, 2475.	3.1	4
22	Real-time tomographic reconstructor based on convolutional neural networks for solar observation. Mathematical Methods in the Applied Sciences, 2020, 43, 8032-8041.	2.3	6
23	A Hybrid Predictive Approach for Chromium Layer Thickness in the Hard Chromium Plating Process Based on the Differential Evolution/Gradient Boosted Regression Tree Methodology. Mathematics, 2020, 8, 959.	2.2	3
24	Effect of Different Implant Designs on Strain and Stress Distribution under Non-Axial Loading: A Three-Dimensional Finite Element Analysis. International Journal of Environmental Research and Public Health, 2020, 17, 4738.	2.6	24
25	Comparative Study of Imputation Algorithms Applied to the Prediction of Student Performance. Logic Journal of the IGPL, 2020, 28, 58-70.	1.5	16
26	A hybrid ARIMA-SVM model for the study of the remaining useful life of aircraft engines. Journal of Computational and Applied Mathematics, 2019, 346, 184-191.	2.0	147
27	Multiscale Supervised Classification of Point Clouds with Urban and Forest Applications. Sensors, 2019, 19, 4523.	3.8	11
28	Coordination between High School and University Teachers in Spain to Reduce Mistakes in Calculus. Mathematics, 2019, 7, 817.	2.2	1
29	Convolutional Neural Networks Approach for Solar Reconstruction in SCAO Configurations. Sensors, 2019, 19, 2233.	3.8	6
30	Prediction of Computer Vision Syndrome in Health Personnel by Means of Genetic Algorithms and Binary Regression Trees. Sensors, 2019, 19, 2800.	3.8	21
31	Advances in Complex Systems and Their Applications to Cybersecurity. Complexity, 2019, 2019, 1-2.	1.6	0
32	Forecast of the higher heating value in biomass torrefaction by means of machine learning techniques. Journal of Computational and Applied Mathematics, 2019, 357, 284-301.	2.0	60
33	Does the transversal screw design increase the risk of mechanical complications in dental implants? A finite elements analysis. International Journal for Numerical Methods in Biomedical Engineering, 2019, 35, e3205.	2.1	6
34	The MIR 2018 Exam: Psychometric Study and Comparison with the Previous Nine Years. Medicina (Lithuania), 2019, 55, 751.	2.0	3
35	Convolutional CARMEN: Tomographic Reconstruction for Night Observation. Lecture Notes in Computer Science, 2019, , 335-345.	1.3	1
36	Evolutionary Algorithm for Pathways Detection in GWAS Studies. Lecture Notes in Computer Science, 2019, , 111-122.	1.3	0

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37	Genetic Algorithm Based on Support Vector Machines for Computer Vision Syndrome Classification. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 381-390.	0.6	2
38	PM10 concentration forecasting in the metropolitan area of Oviedo (Northern Spain) using models based on SVM, MLP, VARMA and ARIMA: A case study. <i>Science of the Total Environment</i> , 2018, 621, 753-761.	8.0	142
39	Detection of Outliers in Pollutant Emissions from the Soto de Ribera Coal-Fired Plant Using Functional Data Analysis: A Case Study in Northern Spain. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	1
40	Cyanotoxin level prediction in a reservoir using gradient boosted regression trees: a case study. <i>Environmental Science and Pollution Research</i> , 2018, 25, 22658-22671.	5.3	12
41	Estimation of PM10 concentration from air quality data in the vicinity of a major steelworks site in the metropolitan area of AvilÃs (Northern Spain) using machine learning techniques. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 3287-3298.	4.0	17
42	Rare earth elements price forecasting by means of transgenic time series developed with ARIMA models. <i>Resources Policy</i> , 2018, 59, 95-102.	9.6	22
43	Assessing the breathing resistance of filtering-facepiece respirators in Polish coal mines: A survey and laboratory study. <i>International Journal of Industrial Ergonomics</i> , 2018, 68, 101-109.	2.6	6
44	Analysis of Biomass Blend Co-Firing for Post Combustion CO2 Capture. <i>Sustainability</i> , 2018, 10, 923.	3.2	7
45	A Hybrid Algorithm for the Assessment of the Influence of Risk Factors in the Development of Upper Limb Musculoskeletal Disorders. <i>Lecture Notes in Computer Science</i> , 2018, , 634-646.	1.3	2
46	Classification of Prostate Cancer Patients and Healthy Individuals by Means of a Hybrid Algorithm Combining SVM and Evolutionary Algorithms. <i>Lecture Notes in Computer Science</i> , 2018, , 547-557.	1.3	1
47	A Multiregressive Approach for SNPs Identification in Prostate Cancer. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 400-409.	0.6	1
48	A Hybrid Algorithm for the Prediction of Computer Vision Syndrome in Health Personnel Based on Trees and Evolutionary Algorithms. <i>Lecture Notes in Computer Science</i> , 2018, , 597-608.	1.3	0
49	Stress distribution in the transitional peri-implant bone in a single implant-supported prosthesis with platform-switching under different angulated loads. <i>Odontology / the Society of the Nippon Dental University</i> , 2017, 105, 68-75.	1.9	13
50	Suicide, unemployment, and economic recession in Spain. <i>Revista De PsiquiatrÃa Y Salud Mental (English Edition)</i> , 2017, 10, 70-77.	0.3	13
51	Prognostic value of computed tomography pulmonary angiography indices in patients with cancer-related pulmonary embolism: Data from a multicenter cohort study. <i>European Journal of Radiology</i> , 2017, 87, 66-75.	2.6	9
52	Endocrinology and nutrition: Evolution of the choice of specialty in the last years. <i>EndocrinologÃa Diabetes Y NutriciÃn (English Ed)</i> , 2017, 64, 329-331.	0.2	1
53	EndocrinologÃa y nutriciÃn: evoluciÃn de la elecciÃn de la especialidad en los Ãltimos aÃos. <i>EndocrinologÃa, Diabetes Y NutriciÃn</i> , 2017, 64, 329-331.	0.3	9
54	AnÃlisis de la elecciÃn de la especialidad de radiodiagnÃstico en el examen MIR desde el aÃo 2006 hasta 2015. <i>RadiologÃa</i> , 2017, 59, 232-246.	0.5	7

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55	Missing data imputation of questionnaires by means of genetic algorithms with different fitness functions. <i>Journal of Computational and Applied Mathematics</i> , 2017, 311, 704-717.	2.0	52
56	A Parametric Model of the LARCODEMS Heavy Media Separator by Means of Multivariate Adaptive Regression Splines. <i>Materials</i> , 2017, 10, 729.	2.9	7
57	Power Cell SOC Modelling for Intelligent Virtual Sensor Implementation. <i>Journal of Sensors</i> , 2017, 2017, 1-10.	1.1	32
58	Analysing the Performance of a Tomographic Reconstructor with Different Neural Networks Frameworks. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 1051-1060.	0.6	7
59	Gastroenterology - Evolution of specialty choice in recent years. <i>Revista Espanola De Enfermedades Digestivas</i> , 2017, 109, 614-618.	0.3	7
60	A Hybrid Algorithm for Missing Data Imputation and Its Application to Electrical Data Loggers. <i>Sensors</i> , 2016, 16, 1467.	3.8	4
61	Biomechanical Consequences of the Elastic Properties of Dental Implant Alloys on the Supporting Bone: Finite Element Analysis. <i>BioMed Research International</i> , 2016, 2016, 1-9.	1.9	41
62	A nomogram for predicting complications in patients with solid tumours and seemingly stable febrile neutropenia. <i>British Journal of Cancer</i> , 2016, 114, 1191-1198.	6.4	14
63	Student Performance Prediction Applying Missing Data Imputation in Electrical Engineering Studies Degree. <i>Lecture Notes in Computer Science</i> , 2016, , 126-135.	1.3	0
64	Experience with wavefront sensor and deformable mirror interfaces for wide-field adaptive optics systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 1350-1359.	4.4	29
65	A Statistical Approach To Prediction Of The CMM Drift Behaviour Using A Calibrated Mechanical Artefact. <i>Metrology and Measurement Systems</i> , 2015, 22, 417-428.	1.4	8
66	Forecasting European thermal coal spot prices. <i>Journal of Sustainable Mining</i> , 2015, 14, 203-210.	0.2	31
67	A New Missing Data Imputation Algorithm Applied to Electrical Data Loggers. <i>Sensors</i> , 2015, 15, 31069-31082.	3.8	26
68	Experimental evidence of pharmacological management of anchorage in Orthodontics: A systematic review. <i>Dental Press Journal of Orthodontics</i> , 2015, 20, 58-65.	0.9	4
69	Hybrid PSO-SVM-based method for forecasting of the remaining useful life for aircraft engines and evaluation of its reliability. <i>Reliability Engineering and System Safety</i> , 2015, 138, 219-231.	8.9	235
70	A Hybrid PCA-CART-MARS-Based Prognostic Approach of the Remaining Useful Life for Aircraft Engines. <i>Sensors</i> , 2015, 15, 7062-7083.	3.8	36
71	Forecasting the COMEX copper spot price by means of neural networks and ARIMA models. <i>Resources Policy</i> , 2015, 45, 37-43.	9.6	121
72	Investment in new tungsten mining projects. <i>Resources Policy</i> , 2015, 46, 177-190.	9.6	29

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73	Missing Data Imputation of Solar Radiation Data under Different Atmospheric Conditions. Sensors, 2014, 14, 20382-20399.	3.8	60
74	Open-loop tomography with artificial neural networks on CANARY: on-sky results. Monthly Notices of the Royal Astronomical Society, 2014, 441, 2508-2514.	4.4	50
75	First on-sky results of a neural network based tomographic reconstructor: Carmen on Canary. Proceedings of SPIE, 2014, , .	0.8	10
76	Evolutionary support vector regression algorithm applied to the prediction of the thickness of the chromium layer in a hard chromium plating process. Applied Mathematics and Computation, 2014, 227, 164-170.	2.2	16
77	Effects of the economic crisis on demand due to mental disorders in Asturias: data from the Asturias Cumulative Psychiatric Case Register (2000-2010). Actas Espanolas De Psiquiatria, 2014, 42, 108-15.	0.1	16
78	Battery state-of-charge estimator using the SVM technique. Applied Mathematical Modelling, 2013, 37, 6244-6253.	4.2	148
79	Support Vector Machines and Multilayer Perceptron Networks Used to Evaluate the Cyanotoxins Presence from Experimental Cyanobacteria Concentrations in the Trasona Reservoir (Northern Spain). Water Resources Management, 2013, 27, 3457-3476.	3.9	36
80	Survival model in oral squamous cell carcinoma based on clinicopathological parameters, molecular markers and support vector machines. Expert Systems With Applications, 2013, 40, 4770-4776.	7.6	30
81	Evoluci3n de la prevalencia administrativa de los trastornos mentales durante 13 a±os en Asturias (norte de Espa±a). Revista De PsiquiatrAa Y Salud Mental, 2013, 6, 60-66.	1.8	8
82	Changes in administrative prevalence of mental disorders over a 13-year period in Asturias (northern) Tj ETQq0 0 0 rBT /Overlock 10 Tf	0.3	3
83	Battery State-of-Charge Estimator Using the MARS Technique. IEEE Transactions on Power Electronics, 2013, 28, 3798-3805.	7.9	74
84	Hybrid modelling based on support vector regression with genetic algorithms in forecasting the cyanotoxins presence in the Trasona reservoir (Northern Spain). Environmental Research, 2013, 122, 1-10.	7.5	44
85	Forecasting the cyanotoxins presence in fresh waters: A new model based on genetic algorithms combined with the MARS technique. Ecological Engineering, 2013, 53, 68-78.	3.6	36
86	Forecasting SO2 Pollution Incidents by means of Elman Artificial Neural Networks and ARIMA Models. Abstract and Applied Analysis, 2013, 2013, 1-6.	0.7	22
87	A Wiki Collaborative Application for Teaching in Manufacturing Engineering. Materials Science Forum, 2013, 759, 11-17.	0.3	0
88	Identification of frequent touristic routes using the SMOt algorithm. , 2013, , .		1
89	An ANN-Based Smart Tomographic Reconstructor in a Dynamic Environment. Sensors, 2012, 12, 8895-8911.	3.8	33
90	Determination and study of lead times of metallic components in the aerospace industry through a Cox-type hazard model. International Journal of Computer Mathematics, 2012, 89, 1901-1913.	1.8	2

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91	Comparison of GPS observations made in a forestry setting using functional data analysis. International Journal of Computer Mathematics, 2012, 89, 402-408.	1.8	8
92	Using multivariate adaptive regression splines and multilayer perceptron networks to evaluate paper manufactured using Eucalyptus globulus. Applied Mathematics and Computation, 2012, 219, 755-763.	2.2	35
93	Bankruptcy Prediction and Credit Scoring: A Review of Recent Developments Based on Hybrid Systems and Some Related Patents. Recent Patents on Computer Science, 2012, 5, 11-20.	0.5	3
94	A hybrid device for the solution of sampling bias problems in the forecasting of firms' bankruptcy. Expert Systems With Applications, 2012, 39, 7512-7523.	7.6	50
95	A new improved study of cyanotoxins presence from experimental cyanobacteria concentrations in the Trasona reservoir (Northern Spain) using the MARS technique. Science of the Total Environment, 2012, 430, 88-92.	8.0	36
96	Bankruptcy Prediction and Credit Scoring: A Review of Recent Developments Based on Hybrid Systems and Some Related Patents. Recent Patents on Computer Science, 2012, 5, 11-20.	0.5	2
97	A 25-year follow-up of patients admitted to methadone treatment for the first time: Mortality and gender differences. Addictive Behaviors, 2011, 36, 1184-1190.	3.0	51
98	Study of cyanotoxins presence from experimental cyanobacteria concentrations using a new data mining methodology based on multivariate adaptive regression splines in Trasona reservoir (Northern Spain). Environmental Modelling and Software, 2011, 26, 1088-1098.	2.2	17
99	Prediction of work-related accidents according to working conditions using support vector machines. Applied Mathematics and Computation, 2011, 218, 3539-3552.	2.2	55
100	Application of neural networks to the study of the influence of diet and lifestyle on the value of bone mineral density in post-menopausal women. Mathematical and Computer Modelling, 2011, 54, 1665-1670.	2.0	17
101	Bankruptcy forecasting: A hybrid approach using Fuzzy c-means clustering and Multivariate Adaptive Regression Splines (MARS). Expert Systems With Applications, 2011, 38, 1866-1875.	7.6	140
102	The use of design of experiments to improve a neural network model in order to predict the thickness of the chromium layer in a hard chromium plating process. Mathematical and Computer Modelling, 2010, 52, 1169-1176.	2.0	52
103	Artificial neural networks applied to cancer detection in a breast screening programme. Mathematical and Computer Modelling, 2010, 52, 983-991.	2.0	52
104	Deformable mirror models for open-loop adaptive optics using non-parametric estimation techniques. Optics Express, 2010, 18, 6492.		0
105	Deformable mirror model for open-loop adaptive optics using multivariate adaptive regression splines. Optics Express, 2010, 18, 6492.	3.4	36
106	Modeling a MEMS deformable mirror using non-parametric estimation techniques. Optics Express, 2010, 18, 21356.	3.4	40
107	A new data mining methodology applied to the modelling of the influence of diet and lifestyle on the value of bone mineral density in post-menopausal women. International Journal of Computer Mathematics, 2009, 86, 1878-1887.	1.8	38
108	Study of posterolateral lumbar arthrodesis by means of a finite element model. Mathematical and Computer Modelling, 2009, 50, 680-694.	2.0	2

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109	A jaw model for the study of the mandibular flexure taking into account the anisotropy of the bone. <i>Mathematical and Computer Modelling</i> , 2009, 50, 695-704.	2.0	18
110	Advantages and Disadvantages of Double Threaded Dental Implant Screws As Opposed to Single-Threaded: A Study from a Biomechanical Perspective by the Finite Element Method. , 2009, , .		0
111	Non-linear numerical analysis of a double-threaded titanium alloy dental implant by FEM. <i>Applied Mathematics and Computation</i> , 2008, 206, 952-967.	2.2	30
112	Feasibility Evaluation of Photogrammetry versus Coordinate Measuring Arms for the Assembly of Welded Structures. <i>Advanced Materials Research</i> , 0, 498, 103-108.	0.3	9
113	A problem-based learning proposal to teach numerical and analytical nonlinear root searching methods. <i>International Journal of Mathematical Education in Science and Technology</i> , 0, , 1-14.	1.4	0