

Susana M Vieira

List of Publications by Year in descending order

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122
papers

2,284
citations

393982

19
h-index

276539

41
g-index

128
all docs

128
docs citations

128
times ranked

2382
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing the impact of automation in pharmaceutical quality control labs using a digital twin. <i>Journal of Manufacturing Systems</i> , 2022, 62, 270-285.	7.6	7
2	Digital Twin of a Flexible Manufacturing System for Solutions Preparation. <i>Automation</i> , 2022, 3, 153-175.	1.2	7
3	Power output optimization of electric vehicles smart charging hubs using deep reinforcement learning. <i>Expert Systems With Applications</i> , 2022, 201, 116995.	4.4	11
4	Integration of industrial IoT architectures for dynamic scheduling. <i>Computers and Industrial Engineering</i> , 2022, 171, 108387.	3.4	7
5	A Multivariable Prediction Model to Select Colorectal Surgical Patients for Co-Management. <i>Acta Medica Portuguesa</i> , 2021, 34, 118-127.	0.2	1
6	Artificial intelligence-based prediction of transfusion in the intensive care unit in patients with gastrointestinal bleeding. <i>BMJ Health and Care Informatics</i> , 2021, 28, e100245.	1.4	18
7	The Impact of Intelligent Automation in Internal Supply Chains. <i>International Journal of Integrated Supply Management</i> , 2021, 1, 1.	0.2	0
8	Circadian rhythm in critically ill patients: Insights from the eICU Database. <i>Cardiovascular Digital Health Journal</i> , 2021, 2, 118-125.	0.5	10
9	Intelligent Sensors for Real-Time Decision-Making. <i>Automation</i> , 2021, 2, 62-82.	1.2	15
10	Air pressure forecasting for the Mutriku oscillating water column wave power plant: Review and case study. <i>IET Renewable Power Generation</i> , 2021, 15, 3485-3503.	1.7	4
11	The impact of intelligent automation in internal supply chains. <i>International Journal of Integrated Supply Management</i> , 2021, 14, 1.	0.2	7
12	Clinical Decision Support Systems for Triage in the Emergency Department using Intelligent Systems: a Review. <i>Artificial Intelligence in Medicine</i> , 2020, 102, 101762.	3.8	130
13	Pharmaceutical quality control laboratory digital twin – A novel governance model for resource planning and scheduling. <i>International Journal of Production Research</i> , 2020, 58, 6553-6567.	4.9	27
14	A Middleware Platform for Intelligent Automation: An Industrial Prototype Implementation. <i>Computers in Industry</i> , 2020, 123, 103329.	5.7	36
15	Multi-agent system for dynamic scheduling. , 2020, , .		0
16	Predicting Intensive Care Unit admission among patients presenting to the emergency department using machine learning and natural language processing. <i>PLoS ONE</i> , 2020, 15, e0229331.	1.1	38
17	Risk of mortality and cardiopulmonary arrest in critical patients presenting to the emergency department using machine learning and natural language processing. <i>PLoS ONE</i> , 2020, 15, e0230876.	1.1	26
18	Optimizing Agent Training with Deep Q-Learning on a Self-Driving Reinforcement Learning Environment. , 2020, , .		3

#	ARTICLE	IF	CITATIONS
19	Internal Supply Chain Digital Twin of a Pharmaceutical Company. IFAC-PapersOnLine, 2020, 53, 10797-10802.	0.5	4
20	Reinforcement Learning for Dual-Resource Constrained Scheduling. IFAC-PapersOnLine, 2020, 53, 10810-10815.	0.5	8
21	Solving Dynamic Delivery Services Using Ant Colony Optimization. Communications in Computer and Information Science, 2020, , 327-341.	0.4	0
22	Artificial Bee Colony Algorithm Applied to Dynamic Flexible Job Shop Problems. Communications in Computer and Information Science, 2020, , 241-254.	0.4	3
23	Evolutionary process scheduling approach for energy cost minimization in a yeast production factory: design, simulation, and factory implementation. Energy Systems, 2019, 10, 113-139.	1.8	6
24	Evolving flocking in embodied agents based on local and global application of Reynolds's™ rules. PLoS ONE, 2019, 14, e0224376.	1.1	6
25	Concept and Evaluation of a Technology-independent Data Collection Architecture for Industrial Automation. , 2019, , .		5
26	Fuzzy Modeling of Survival Associated to Insulin Therapy in the ICU. , 2019, , .		0
27	Dual Resource Constrained Scheduling for Quality Control Laboratories. IFAC-PapersOnLine, 2019, 52, 1421-1426.	0.5	9
28	A Novel Framework for Intelligent Automation. IFAC-PapersOnLine, 2019, 52, 1825-1830.	0.5	18
29	128. Critical Care Medicine, 2019, 47, 47.	0.4	0
30	An Architecture Based on Fuzzy Systems for Personalized Medicine in ICUs. , 2019, , .		0
31	Clinical decision support tool for Co-management signalling. International Journal of Medical Informatics, 2018, 113, 56-62.	1.6	9
32	Selecting sustainable electric bus powertrains using multipreference evolutionary algorithms. International Journal of Sustainable Transportation, 2018, 12, 592-612.	2.1	2
33	Clustering-based novelty detection for identification of non-technical losses. International Journal of Electrical Power and Energy Systems, 2018, 101, 301-310.	3.3	63
34	Foreword. International Journal of Medical Informatics, 2018, 113, 96-97.	1.6	1
35	Mixed Fuzzy Clustering for Deriving Predictive Models in Intensive Care Units. Profiles in Operations Research, 2018, , 81-99.	0.3	2
36	Novel Governance Model for Planning in Pharmaceutical Quality Control Laboratories. IFAC-PapersOnLine, 2018, 51, 484-489.	0.5	4

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37	Hybrid neural models for automatic handwritten digits recognition. , 2018, , .		6
38	Electricity fraud detection using committee semi-supervised learning. , 2018, , .		9
39	Short-term prediction in an Oscillating Water Column using Artificial Neural Networks. , 2018, , .		1
40	Fuzzy Classification of Bariatric Post-surgery Effectiveness. , 2018, , .		1
41	Fuzzy Modeling for Predicting Patient Survival Rate in ICU with AKI. , 2018, , .		2
42	Multiobjective Optimization of a Shell-Like Induction Spherical Motor for a Power-Assisted Wheelchair. IEEE Transactions on Energy Conversion, 2018, 33, 660-669.	3.7	19
43	Multi-Objective Binary Fish School Search. Advances in Computational Intelligence and Robotics Book Series, 2018, , 53-72.	0.4	1
44	Solutions for detection of non-technical losses in the electricity grid: A review. Renewable and Sustainable Energy Reviews, 2017, 80, 1256-1268.	8.2	120
45	Daily prediction of ICU readmissions using feature engineering and ensemble fuzzy modeling. Expert Systems With Applications, 2017, 79, 244-253.	4.4	16
46	Mixed Fuzzy Clustering for Misaligned Time Series. IEEE Transactions on Fuzzy Systems, 2017, 25, 1777-1794.	6.5	11
47	Takagi Sugeno Fuzzy Modeling Using Mixed Fuzzy Clustering. IEEE Transactions on Fuzzy Systems, 2017, 25, 1417-1429.	6.5	36
48	Simulation Model of a Quality Control Laboratory in Pharmaceutical Industry * *This work is funded by Portuguese Funds through the FCT - Foundation for Science and Technology under the project (UID/EMS/50022/2013) and iDecision4Care (IF/00833/2014/CP1238/CT0002). S.M. Vieira acknowledges the support by Program Investigador FCT (IF/00833/2014) from FCT, co-funded by the European Social Fund (ESF) through the Operational Program Human Potential (POPH). The authors acknowledge the support of Hovione Farmacinc. IFAC-PapersOnLine, 2017, 50, 9014-9019.	0.5	11
49	Assessment of energy efficiency measures using multi-objective optimization in Portuguese households. Sustainable Cities and Society, 2017, 35, 764-773.	5.1	24
50	Clustering-based novelty detection to uncover electricity theft. , 2017, , .		14
51	Multistage modeling for the classification of numerical and categorical datasets. , 2017, , .		3
52	Short-term prediction of low kidney function in ICU patients. , 2017, , .		0
53	Segmentation of Residential Gas Consumers Using Clustering Analysis. Energies, 2017, 10, 2047.	1.6	11
54	Relating Aircraft Altitude with Pilot€™s Physiological Variables: Towards Increasing Safety in Light-sport Aviation. , 2017, , .		0

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55	Classification of new electricity customers based on surveys and smart metering data. Energy, 2016, 107, 804-817.	4.5	103
56	Heuristics for three-dimensional steel cutting with usable leftovers considering large time periods. European Journal of Industrial Engineering, 2016, 10, 431.	0.5	7
57	Optimizing probabilistic fuzzy systems for classification using metaheuristics. , 2016, , .		1
58	Prediction of events in the smart grid: Interruptions in distribution transformers. , 2016, , .		5
59	Predicting ICU readmissions based on bedside medical text notes. , 2016, , .		10
60	Analysis of residential natural gas consumers using fuzzy c-means clustering. , 2016, , .		8
61	Fuzzy modeling to predict short and long-term mortality among patients with Acute Kidney Injury. , 2016, , .		2
62	128: MODELING TO INDIVIDUALIZE MEAN ARTERIAL PRESSURE THRESHOLD TO PREVENT ACUTE KIDNEY INJURY IN THE ICU. Critical Care Medicine, 2016, 44, 109-109.	0.4	0
63	Fuzzy Systems in the Service-Life Prediction of Exterior Natural Stone Claddings. Journal of Performance of Constructed Facilities, 2016, 30, .	1.0	12
64	Mortality prediction of septic shock patients using probabilistic fuzzy systems. Applied Soft Computing Journal, 2016, 42, 194-203.	4.1	23
65	Ensemble fuzzy models in personalized medicine: Application to vasopressors administration. Engineering Applications of Artificial Intelligence, 2016, 49, 141-148.	4.3	18
66	Fuzzy Modeling Based on Mixed Fuzzy Clustering for Multivariate Time Series of Unequal Lengths. Communications in Computer and Information Science, 2016, , 741-751.	0.4	1
67	Seasonal Clustering of Residential Natural Gas Consumers. Communications in Computer and Information Science, 2016, , 723-734.	0.4	2
68	Missing Data. , 2016, , 143-162.		36
69	Noise Versus Outliers. , 2016, , 163-183.		33
70	Mining Consumer Characteristics from Smart Metering Data through Fuzzy Modelling. Communications in Computer and Information Science, 2016, , 562-573.	0.4	3
71	Fuzzy modeling based on Mixed Fuzzy Clustering for health care applications. , 2015, , .		8
72	Fuzzy Modeling to Predict Severely Depressed Left Ventricular Ejection Fraction following Admission to the Intensive Care Unit Using Clinical Physiology. Scientific World Journal, The, 2015, 2015, 1-9.	0.8	11

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73	Electricity Usage Efficiency in Large Buildings: DSM Measures and Preliminary Simulations of DR Programs in a Public Library. Communications in Computer and Information Science, 2015, , 249-259.	0.4	1
74	Ensemble fuzzy classifiers design using weighted aggregation criteria. , 2015, , .		3
75	Analysing the segmentation of energy consumers using mixed fuzzy clustering. , 2015, , .		6
76	Modelling the service life of rendered facades using fuzzy systems. Automation in Construction, 2015, 51, 1-7.	4.8	31
77	Designing closed-loop supply chains with nonlinear dimensioning factors using ant colony optimization. Soft Computing, 2015, 19, 2245-2264.	2.1	14
78	Fuzzy Decision Tree to Predict Readmissions in Intensive Care Unit. Lecture Notes in Electrical Engineering, 2015, , 365-373.	0.3	6
79	Electricity demand profile prediction based on household characteristics. , 2015, , .		21
80	Fuzzy Clustering for Incomplete Short Time Series Data. Lecture Notes in Computer Science, 2015, , 353-359.	1.0	4
81	A Tabu Search Algorithm for the 3D Bin Packing Problem in the Steel Industry. Lecture Notes in Electrical Engineering, 2015, , 355-364.	0.3	6
82	Binary Fish School Search applied to feature selection: Application to ICU readmissions. , 2014, , .		17
83	Multimodeling for the prediction of patient readmissions in Intensive Care Units. , 2014, , .		5
84	Metaheuristics for the 3D bin packing problem in the steel industry. , 2014, , .		4
85	Modified binary PSO for feature selection using SVM applied to mortality prediction of septic patients. Applied Soft Computing Journal, 2013, 13, 3494-3504.	4.1	246
86	Predicting intensive care unit readmissions using probabilistic fuzzy systems. , 2013, , .		6
87	A decision support system for ICU readmissions prevention. , 2013, , .		5
88	Reducing unnecessary lab testing in the ICU with artificial intelligence. International Journal of Medical Informatics, 2013, 82, 345-358.	1.6	85
89	Missing data in medical databases: Impute, delete or classify?. Artificial Intelligence in Medicine, 2013, 58, 63-72.	3.8	127
90	Data mining and modeling to predict the necessity of vasopressors for ICU patients. , 2013, , .		2

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91	Disease-based Modeling to Predict Fluid Response in Intensive Care Units. <i>Methods of Information in Medicine</i> , 2013, 52, 494-502.	0.7	19
92	Challenges and Opportunities of Soft Computing Tools in Health Care Delivery. , 2013, , 321-340.		0
93	Image Based Classification Platform. , 2013, , 595-613.		1
94	Modified Sequential Forward Selection Applied to Predicting Septic Shock Outcome in the Intensive Care Unit. <i>Advances in Intelligent Systems and Computing</i> , 2013, , 469-477.	0.5	2
95	Comparison of Multi-objective Algorithms Applied to Feature Selection. <i>Studies in Fuzziness and Soft Computing</i> , 2013, , 359-375.	0.6	2
96	Data mining using clinical physiology at discharge to predict ICU readmissions. <i>Expert Systems With Applications</i> , 2012, 39, 13158-13165.	4.4	85
97	ANN validation system for ICU neonatal data. , 2012, , .		1
98	Multi-stage modeling using fuzzy multi-criteria feature selection to improve survival prediction of ICU septic shock patients. <i>Expert Systems With Applications</i> , 2012, 39, 12332-12339.	4.4	19
99	Probabilistic fuzzy prediction of mortality in intensive care units. , 2012, , .		2
100	Metaheuristics for feature selection: Application to sepsis outcome prediction. , 2012, , .		6
101	Fuzzy criteria for feature selection. <i>Fuzzy Sets and Systems</i> , 2012, 189, 1-18.	1.6	65
102	Predicting laboratory testing in intensive care using fuzzy and neural modeling. , 2011, , .		2
103	Multi-Objective Performance Evaluation Using Fuzzy Criteria: Increasing Sensitivity Prediction for Outcome of Septic Shock Patients. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011, 44, 14042-14047.	0.4	4
104	Optimization of Fuzzy Models using a Novel PSO Algorithm: Application to Medical Databases. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011, 44, 9023-9028.	0.4	2
105	Preprocessing of Clinical Databases to improve classification accuracy of patient diagnosis*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011, 44, 14121-14126.	0.4	3
106	Predicting septic shock outcomes in a database with missing data using fuzzy modeling: Influence of pre-processing techniques on real-world data-based classification. , 2011, , .		5
107	Computational intelligence methods for processing misaligned, unevenly sampled time series containing missing data. , 2011, , .		17
108	Fuzzy modeling to predict administration of vasopressors in intensive care unit patients. , 2011, , .		8

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109	Ant Feature Selection Using Fuzzy Decision Functions. Studies in Fuzziness and Soft Computing, 2010, , 343-364.	0.6	1
110	Two cooperative ant colonies for feature selection using fuzzy models. Expert Systems With Applications, 2010, 37, 2714-2723.	4.4	89
111	Cohen's kappa coefficient as a performance measure for feature selection. , 2010, , .		111
112	Predicting Outcomes of Septic Shock Patients Using Feature Selection Based on Soft Computing Techniques. Communications in Computer and Information Science, 2010, , 65-74.	0.4	18
113	Multi-Criteria Ant Feature Selection Using Fuzzy Classifiers. Studies in Computational Intelligence, 2009, , 19-36.	0.7	14
114	Fuzzy classification in ant feature selection. , 2008, , .		6
115	Real-Time Fuzzy Predictive Control of a Column Flotation Process. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	4
116	Decision tree search methods in fuzzy modeling and classification. International Journal of Approximate Reasoning, 2007, 44, 106-123.	1.9	62
117	Ant Colony Optimization Applied to Feature Selection in Fuzzy Classifiers. Lecture Notes in Computer Science, 2007, , 778-788.	1.0	19
118	Fault Accommodation Using Fuzzy Predictive Control. , 2006, , .		2
119	Ant Based Fuzzy Modeling Applied to Marble Classification. Lecture Notes in Computer Science, 2006, , 90-101.	1.0	6
120	Fuzzy modelling strategies applied to a column flotation process. Minerals Engineering, 2005, 18, 725-729.	1.8	31
121	Combination of fuzzy identification algorithms applied to a column flotation process. , 0, , .		6
122	Fuzzy clustering and prediction of electricity demand based on household characteristics. , 0, , .		15