Paiva, A P

List of Publications by Citations

101 papers	1,406 citations	20 h-index	33 g-index
106 ext. papers	1,655 ext. citations	4 avg, IF	4.79 L-index

#	Paper	IF	Citations
101	Design of experiments on neural network's training for nonlinear time series forecasting. *Neurocomputing*, **2009**, 72, 1160-1178	5.4	94
100	Design of experiments and focused grid search for neural network parameter optimization. *Neurocomputing*, **2016**, 186, 22-34	5.4	82
99	A multivariate hybrid approach applied to AISI 52100 hardened steel turning optimization. *Journal of Materials Processing Technology*, **2007**, 189, 26-35	5.3	74
98	Optimization of Radial Basis Function neural network employed for prediction of surface roughness in hard turning process using Taguchi orthogonal arrays. *Expert Systems With Applications*, **2012**, 39, 7776-7787	7.8	71
97	A review of helical milling process. *International Journal of Machine Tools and Manufacture*, **2017**, 120, 27-48	9.4	70
96	Artificial neural networks for machining processes surface roughness modeling. *International Journal of Advanced Manufacturing Technology*, **2010**, 49, 879-902	3.2	51
95	A normal boundary intersection approach to multiresponse robust optimization of the surface roughness in end milling process with combined arrays. *Precision Engineering*, **2014**, 38, 628-638	2.9	45
94	Wind power generation: An impact analysis of incentive strategies for cleaner energy provision in Brazil. *Journal of Cleaner Production*, **2016**, 137, 1100-1108	10.3	42
93	A multivariate mean square error optimization of AISI 52100 hardened steel turning. *International Journal of Advanced Manufacturing Technology*, **2009**, 43, 631-643	3.2	40
92	A multivariate robust parameter design approach for optimization of AISI 52100 hardened steel turning with wiper mixed ceramic tool. *International Journal of Refractory Metals and Hard Materials* , **2012**, 30, 152-163	4.1	37
91	A new multivariate gage R&R method for correlated characteristics. *International Journal of Production Economics*, **2013**, 144, 301-315	9.3	37
90	Photovoltaic electricity production in Brazil: A stochastic economic viability analysis for small systems in the face of net metering and tax incentives. *Journal of Cleaner Production*, **2017**, 168, 1448-1462	10.3	32
89	Weighted Multivariate Mean Square Error for processes optimization: A case study on flux-cored arc welding for stainless steel claddings. *European Journal of Operational Research*, **2013**, 226, 522-535	5.6	27
88	Multivariate Normal Boundary Intersection based on rotated factor scores: A multiobjective optimization method for methyl orange treatment. *Journal of Cleaner Production*, **2017**, 143, 413-439	10.3	24
87	A normal boundary intersection with multivariate mean square error approach for dry end milling process optimization of the AISI 1045 steel. *Journal of Cleaner Production*, **2016**, 135, 1658-1672	10.3	22
86	A multivariate robust parameter optimization approach based on Principal Component Analysis with combined arrays. *Computers and Industrial Engineering*, **2014**, 74, 186-198	6.4	22
85	Normal boundary intersection method based on principal components and Taguchi signal-to-noise ratio applied to the multiobjective optimization of 12L14 free machining steel turning process. *International Journal of Advanced Manufacturing Technology*, **2016**, 87, 825-834	3.2	21

84	Weighted approach for multivariate analysis of variance in measurement system analysis. *Precision Engineering*, **2014**, 38, 651-658	2.9	21
83	A stochastic economic viability analysis of residential wind power generation in Brazil. *Renewable and Sustainable Energy Reviews*, **2018**, 90, 412-419	16.2	20
82	Robust multiple criteria decision making applied to optimization of AISI H13 hardened steel turning with PCBN wiper tool. *International Journal of Advanced Manufacturing Technology*, **2017**, 89, 2251-2268	3.2	20
81	Multi-objective optimization of pulsed gas metal arc welding process based on weighted principal component scores. *International Journal of Advanced Manufacturing Technology*, **2010**, 50, 113-125	3.2	20
80	Multi-objective robust optimization of the sustainable helical milling process of the aluminum alloy Al 7075 using the augmented-enhanced normalized normal constraint method. *Journal of Cleaner Production*, **2017**, 152, 474-496	10.3	19
79	Robust parameter optimization based on multivariate normal boundary intersection. *Computers and Industrial Engineering*, **2016**, 93, 55-66	6.4	19
78	A mel-frequency cepstral coefficient-based approach for surface roughness diagnosis in hard turning using acoustic signals and gaussian mixture models. *Applied Acoustics*, **2016**, 113, 230-237	3.1	18
77	Comparing DEA and principal component analysis in the multiobjective optimization of P-GMAW process. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2016**, 38, 2513-2526	2	17
76	A multiobjective optimization model for machining quality in the AISI 12L14 steel turning process using fuzzy multivariate mean square error. *Precision Engineering*, **2019**, 56, 303-320	2.9	17
75	Response surface methodology for advanced manufacturing technology optimization: theoretical fundamentals, practical guidelines, and survey literature review. *International Journal of Advanced Manufacturing Technology*, **2019**, 104, 1785-1837	3.2	17
74	Global Criterion Method Based on Principal Components to the Optimization of Manufacturing Processes with Multiple Responses. *Strojniski Vestnik/Journal of Mechanical Engineering*, **2012**, 58, 345-353	1.3	17
73	Entropy-Based Weighting for Multiobjective Optimization: An Application on Vertical Turning. *Mathematical Problems in Engineering*, **2015**, 2015, 1-11	1.1	16
72	Combining Scott-Knott and GR&R methods to identify special causes of variation. *Measurement: Journal of the International Measurement Confederation*, **2016**, 82, 135-144	4.6	14
71	A PCA-based approach for substation clustering for voltage sag studies in the Brazilian new energy context. *Electric Power Systems Research*, **2016**, 136, 31-42	3.5	14
70	Design of experiments applied to environmental variables analysis in electricity utilities efficiency: The Brazilian case. *Energy Economics*, **2014**, 45, 111-119	8.3	14
69	Portland cement with additives in the repair of furcation perforations in dogs. *Acta Cirurgica Brasileira*, **2012**, 27, 809-14	1.6	14
68	Portfolio optimization using Mixture Design of Experiments: Scheduling trades within electricity markets. *Energy Economics*, **2011**, 33, 24-32	8.3	14
67	Surface roughness diagnosis in hard turning using acoustic signals and support vector machine: A PCA-based approach. *Applied Acoustics*, **2020**, 159, 107102	3.1	14

66	Robust weighting applied to optimization of AISI H13 hardened-steel turning process with ceramic wiper tool: A diversity-based approach. *Precision Engineering*, **2017**, 50, 235-247	2.9	13
65	Mathematical Modeling of Weld Bead Geometry, Quality, and Productivity for Stainless Steel Claddings Deposited by FCAW. *Journal of Materials Engineering and Performance*, **2012**, 21, 1862-1872	1.6	13
64	Robust optimisation of surface roughness of AISI H13 hardened steel in the finishing milling using ball nose end mills. *Precision Engineering*, **2019**, 60, 194-214	2.9	12
63	A multivariate surface roughness modeling and optimization under conditions of uncertainty. *Measurement: Journal of the International Measurement Confederation*, **2013**, 46, 2555-2568	4.6	12
62	Weighted principal component analysis combined with Taguchi's signal-to-noise ratio to the multiobjective optimization of dry end milling process: a comparative study. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2017**, 39, 1663-1681	2	12
61	Multiobjective portfolio optimization of ARMA-GARCH time series based on experimental designs. *Computers and Operations Research*, **2016**, 66, 434-444	4.6	11
60	Factorial design analysis applied to the performance of SMS anti-spam filtering systems. *Expert Systems With Applications*, **2016**, 64, 589-604	7.8	11
59	A multivariate normal boundary intersection PCA-based approach to reduce dimensionality in optimization problems for LBM process. *Engineering With Computers*, **2019**, 35, 1533-1544	4.5	11
58	A new multivariate approach based on weighted factor scores and confidence ellipses to precision evaluation of textured fiber bobbins measurement system. *Precision Engineering*, **2019**, 60, 520-534	2.9	10
57	Multivariate data quality assessment based on rotated factor scores and confidence ellipsoids. *Decision Support Systems*, **2020**, 129, 113173	5.6	10
56	Sensitivity analysis in discrete-event simulation using fractional factorial designs. *Journal of Simulation*, **2010**, 4, 128-142	1.9	9
55	Multivariate robust modeling and optimization of cutting forces of the helical milling process of the aluminum alloy Al 7075. *International Journal of Advanced Manufacturing Technology*, **2018**, 95, 2691-2715	3.2	9
54	Optimization of combined time series methods to forecast the demand for coffee in Brazil: A new approach using Normal Boundary Intersection coupled with mixture designs of experiments and rotated factor scores. *International Journal of Production Economics*, **2019**, 212, 186-211	9.3	8
53	Aircraft interior failure pattern recognition utilizing text mining and neural networks. *Journal of Intelligent Information Systems*, **2012**, 38, 741-766	2.1	8
52	Integrating Multivariate Statistical Analysis Into Six Sigma DMAIC Projects: A Case Study on AISI 52100 Hardened Steel Turning. *IEEE Access*, **2020**, 8, 34246-34255	3.5	7
51	. *IEEE Access*, **2020**, 8, 61267-61276	3.5	7
50	Entropy-Based weighting applied to normal boundary intersection approach: the vertical turning of martensitic gray cast iron piston rings case. *Acta Scientiarum - Technology*, **2015**, 37, 361	0.5	7
49	A multivariate descriptor method for change-point detection in nonlinear time series. *Journal of Applied Statistics*, **2011**, 38, 327-342	1	7

48	Multivariate Taguchi loss function optimization based on principal components analysis and normal boundary intersection. *Engineering With Computers*, **2020**, 1	4.5	7
47	Evaluating economic feasibility and maximization of social welfare of photovoltaic projects developed for the Brazilian northeastern coast: An attribute agreement analysis. *Renewable and Sustainable Energy Reviews*, **2020**, 123, 109786	16.2	6
46	A DOE based approach for the design of RBF artificial neural networks applied to prediction of surface roughness in AISI 52100 hardened steel turning. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2010**, 32, 503-510	2	6
45	Enhancement of discriminatory power by ellipsoidal functions for substation clustering in voltage sag studies. *Electric Power Systems Research*, **2020**, 185, 106368	3.5	6
44	Correlation analysis among audible sound emissions and machining parameters in hardened steel turning. *Journal of Intelligent Manufacturing*, **2019**, 30, 1753-1764	6.7	6
43	Aplicaï¿½ da Metodologia de Superfï¿½ie de Resposta para Otimizaï¿½ do Processo de Solda a Ponto no Aï¿½ Galvanizado AISI 1006. *Soldagem E Inspecao*, **2018**, 23, 129-142	0.3	6
42	Stochastic portfolio optimization using efficiency evaluation. *Management Decision*, **2015**, 53, 1698-1713	4.4	5
41	The Influence of Accreditation on the Sustainability of Organizations with the Brazilian Accreditation Methodology. *Journal of Healthcare Engineering*, **2018**, 2018, 1393585	3.7	5
40	Prediction capability of Pareto optimal solutions: A multi-criteria optimization strategy based on model capability ratios. *Precision Engineering*, **2019**, 59, 185-210	2.9	5
39	Pattern recognition in audible sound energy emissions of AISI 52100 hardened steel turning: a MFCC-based approach. *International Journal of Advanced Manufacturing Technology*, **2017**, 88, 1383-1392	3.2	5
38	Multivariate Optimization of the Cutting Parameters when Turning Slender Components. *International Journal of Manufacturing, Materials, and Mechanical Engineering*, **2012**, 2, 12-31	0.5	5
37	A Gage Study Through the Weighting of Latent Variables Under Orthogonal Rotation. *IEEE Access*, **2020**, 8, 183557-183570	3.5	5
36	Robust modeling and optimization of borehole enlarging by helical milling of aluminum alloy Al7075. *International Journal of Advanced Manufacturing Technology*, **2019**, 100, 2583-2599	3.2	5
35	Otimizaï¿½ do processo de soldagem FCAW usando o erro quadrï¿½ico mï¿½io multivariado. *Soldagem E Inspecao*, **2010**, 15, 31-40	0.3	4
34	A Design of Experiments Comparative Study on Clustering Methods. *IEEE Access*, **2019**, 7, 167726-167738	3.5	4
33	Toward a robust optimal point selection: a multiple-criteria decision-making process applied to multi-objective optimization using response surface methodology. *Engineering With Computers*, **2020**, 37, 2735	4.5	3
32	Optimization methodology of alternating current P-GMAW process by voltage-current signal analysis. *International Journal of Advanced Manufacturing Technology*, **2016**, 86, 565-580	3.2	3
31	The Machinability of Hard Materials ï¿½A Review **2014**, 145-173		3

30	Crack avoidance in steel piston rings through the optimization of process and gas nitriding parameters. *International Journal of Advanced Manufacturing Technology*, **2011**, 56, 397-409	3.2	3
29	Modeling and Optimization of Multiple Characteristics in the AISI 52100 Hardened Steel Turning. *Advanced Materials Research*, **2011**, 223, 545-553	0.5	3
28	Nonlinear optimization strategy based on multivariate prediction capability ratios: Analytical schemes and model validation for duplex stainless steel end milling. *Precision Engineering*, **2020**, 66, 229-234	2.9	3
27	Comparisons of multivariate GR&R methods using bootstrap confidence interval. *Acta Scientiarum - Technology*, **2016**, 38, 489	0.5	3
26	Multivariate global index and multivariate mean square error optimization of AISI 1045 end milling. *International Journal of Advanced Manufacturing Technology*, **2016**, 87, 3195-3209	3.2	3
25	Fuzzy multivariate mean square error in equispaced pareto frontiers considering manufacturing process optimization problems. *Engineering With Computers*, **2019**, 35, 1213-1236	4.5	3
24	A new multiobjective optimization with elliptical constraints approach for nonlinear models implemented in a stainless steel cladding process. *International Journal of Advanced Manufacturing Technology*, **2021**, 113, 1469-1484	3.2	3
23	Hybrid multiobjective optimization algorithm based on multivariate mean square error and fuzzy decision maker. *Applied Soft Computing Journal*, **2019**, 82, 105586	7.5	2
22	Stochastic Optimization of AISI 52100 Hard Turning With Six Sigma Capability Constraint. *IEEE Access*, **2019**, 7, 46288-46294	3.5	2
21	Experimental Design and Data collection of a finishing end milling operation of AISI 1045 steel. *Data in Brief*, **2016**, 6, 609-13	1.2	2
20	Impact of stochastic industrial variables on the cost optimization of AISI 52100 hardened-steel turning process. *International Journal of Advanced Manufacturing Technology*, **2019**, 104, 4331-4340	3.2	2
19	Robust optimization of energy consumption during mechanical processing of wood. *European Journal of Wood and Wood Products*, **2019**, 77, 1211-1220	2.1	2
18	Development of a special geometry carbide tool for the optimization of vertical turning of martensitic gray cast iron piston rings. *International Journal of Advanced Manufacturing Technology*, **2012**, 63, 523-534	3.2	2
17	Otimizaõ do desempenho de amplificadores de radiofrequência banda larga: uma abordagem experimental. *Production*, **2011**, 21, 118-131	1.3	2
16	FCAW process optimization using the multivariate mean square error. *Welding International*, **2012**, 26, 79-86	0.1	2
15	Optimization of the FCAW process by weld bead geometry analysis. *Welding International*, **2009**, 23, 261-269	0.1	2
14	Anlise de modelo para projeto e desenvolvimento de serviços: uma pesquisa-aõ em uma empresa de transporte rodoviio de passageiros. *Gestõ & Produõ*, **2008**, 15, 491-505	0.9	2
13	Measurement data from bobbins of Partially Oriented Yarns: Univariate and multivariate aspects. *Data in Brief*, **2019**, 27, 104637	1.2	1

List of Publications

12	Mixture design of experiments on portfolio optimisation of power generation. *IET Generation, Transmission and Distribution*, **2017**, 11, 322-329	2.5	1
11	Otimizaã de mltiplos objetivos na soldagem de revestimento de chapas de aã carbono ABNT 1020 utilizando arame tubular inoxidvel austentico. *Soldagem E Inspecao*, **2011**, 16, 232-342	0.3	1
10	Normal Boundary Intersection with factor analysis approach for multiobjective stochastic optimization of a cladding process focusing on reduction of energy consumption and rework. *Journal of Cleaner Production*, **2022**, 333, 129915	10.3	0
9	Combining machine learning techniques with KappaKendall indexes for robust hard-cluster assessment in substation pattern recognition. *Electric Power Systems Research*, **2022**, 206, 107778	3.5	0
8	Multivariate steepest ascent method based on latent variables. *Applied Mathematical Modelling*, **2021**, 90, 30-45	4.5	0
7	A PCA-Based Consistency and Sensitivity Approach for Assessing Linkage Methods in Voltage Sag Studies. *IEEE Access*, **2021**, 9, 84871-84885	3.5	0
6	Multi-objective optimization algorithm for analysis of hardened steel turning manufacturing process. *Applied Mathematical Modelling*, **2022**, 106, 822-843	4.5	0
5	Short-term forecasting models for automated data backup system: segmented regression analysis. *Acta Scientiarum - Technology*, **2020**, 42, e46073	0.5	
4	Stochastic evaluation of robust portfolios based on hierarchical clustering and worst-case scenarios. *Acta Scientiarum - Technology*, **2017**, 39, 623	0.5	
3	DESIGN OF EXPERIMENTS AND COMPUTATIONAL FLUID DYNAMICS APPROACH TO IMPROVE THE PRODUCT DESIGN PROCESS. *Brazilian Journal of Development*, **2020**, 6, 57096-57106	0	
2	Detecã de mudanã de nvel em sries temporais nã lineares usando Descritores de Hjorth. *Production*, **2015**, 25, 812-825	1.3	
1	A multiobjective optimization of the welding process in aluminum alloy (AA) 6063 T4 tubes used in corona rings through normal boundary intersection and multivariate techniques. *International Journal of Advanced Manufacturing Technology*,1	3.2	