

Pedro P Balestrassi

List of Publications by Citations

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98
papers

1,406
citations

20
h-index

34
g-index

105
ext. papers

1,666
ext. citations

4
avg, IF

4.73
L-index

#	Paper	IF	Citations
98	A Model to Long-Term, Multiarea, Multistage, and Integrated Expansion Planning of Electricity and Natural Gas Systems. <i>IEEE Transactions on Power Systems</i> , 2010 , 25, 1154-1168	7	156
97	Design of experiments on neural network's training for nonlinear time series forecasting. <i>Neurocomputing</i> , 2009 , 72, 1160-1178	5.4	94
96	Design of experiments and focused grid search for neural network parameter optimization. <i>Neurocomputing</i> , 2016 , 186, 22-34	5.4	82
95	A multivariate hybrid approach applied to AISI 52100 hardened steel turning optimization. <i>Journal of Materials Processing Technology</i> , 2007 , 189, 26-35	5.3	74
94	Optimization of Radial Basis Function neural network employed for prediction of surface roughness in hard turning process using Taguchi's orthogonal arrays. <i>Expert Systems With Applications</i> , 2012 , 39, 7776-7787	7.8	71
93	Artificial neural networks for machining processes surface roughness modeling. <i>International Journal of Advanced Manufacturing Technology</i> , 2010 , 49, 879-902	3.2	51
92	A normal boundary intersection approach to multiresponse robust optimization of the surface roughness in end milling process with combined arrays. <i>Precision Engineering</i> , 2014 , 38, 628-638	2.9	45
91	A multivariate mean square error optimization of AISI 52100 hardened steel turning. <i>International Journal of Advanced Manufacturing Technology</i> , 2009 , 43, 631-643	3.2	40
90	Electricity demand and spot price forecasting using evolutionary computation combined with chaotic nonlinear dynamic model. <i>International Journal of Electrical Power and Energy Systems</i> , 2010 , 32, 108-116	5.1	39
89	A multivariate robust parameter design approach for optimization of AISI 52100 hardened steel turning with wiper mixed ceramic tool. <i>International Journal of Refractory Metals and Hard Materials</i> , 2012 , 30, 152-163	4.1	37
88	A new multivariate gage R&R method for correlated characteristics. <i>International Journal of Production Economics</i> , 2013 , 144, 301-315	9.3	37
87	Weighted Multivariate Mean Square Error for processes optimization: A case study on flux-cored arc welding for stainless steel claddings. <i>European Journal of Operational Research</i> , 2013 , 226, 522-535	5.6	27
86	Multivariate Normal Boundary Intersection based on rotated factor scores: A multiobjective optimization method for methyl orange treatment. <i>Journal of Cleaner Production</i> , 2017 , 143, 413-439	10.3	24
85	Investigation of TQM implementation: empirical study in Brazilian ISO 9001-registered SMEs. <i>Total Quality Management and Business Excellence</i> , 2019 , 30, 641-659	2.7	24
84	A normal boundary intersection with multivariate mean square error approach for dry end milling process optimization of the AISI 1045 steel. <i>Journal of Cleaner Production</i> , 2016 , 135, 1658-1672	10.3	22
83	A multivariate robust parameter optimization approach based on Principal Component Analysis with combined arrays. <i>Computers and Industrial Engineering</i> , 2014 , 74, 186-198	6.4	22
82	Weighted approach for multivariate analysis of variance in measurement system analysis. <i>Precision Engineering</i> , 2014 , 38, 651-658	2.9	21

81	A stochastic economic viability analysis of residential wind power generation in Brazil. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 90, 412-419	16.2	20
80	Robust multiple criteria decision making applied to optimization of AISI H13 hardened steel turning with PCBN wiper tool. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 89, 2251-2268	3.2	20
79	Multi-objective optimization of pulsed gas metal arc welding process based on weighted principal component scores. <i>International Journal of Advanced Manufacturing Technology</i> , 2010 , 50, 113-125	3.2	20
78	Robust parameter optimization based on multivariate normal boundary intersection. <i>Computers and Industrial Engineering</i> , 2016 , 93, 55-66	6.4	19
77	A mel-frequency cepstral coefficient-based approach for surface roughness diagnosis in hard turning using acoustic signals and gaussian mixture models. <i>Applied Acoustics</i> , 2016 , 113, 230-237	3.1	18
76	Design of experiments using artificial neural network ensemble for photovoltaic generation forecasting. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 135, 110450	16.2	18
75	Comparing DEA and principal component analysis in the multiobjective optimization of P-GMAW process. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2016 , 38, 2513-2526	2	17
74	A multiobjective optimization model for machining quality in the AISI 12L14 steel turning process using fuzzy multivariate mean square error. <i>Precision Engineering</i> , 2019 , 56, 303-320	2.9	17
73	Response surface methodology for advanced manufacturing technology optimization: theoretical fundamentals, practical guidelines, and survey literature review. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 104, 1785-1837	3.2	17
72	Global Criterion Method Based on Principal Components to the Optimization of Manufacturing Processes with Multiple Responses. <i>Strojnicki Vestnik/Journal of Mechanical Engineering</i> , 2012 , 58, 345-353	1.3	17
71	Entropy-Based Weighting for Multiobjective Optimization: An Application on Vertical Turning. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-11	1.1	16
70	Analysis of the wind average speed in different Brazilian states using the nested GR&R measurement system. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018 , 115, 217-222	4.6	16
69	A multivariate GR&R approach to variability evaluation of measuring instruments in resistance spot welding process. <i>Journal of Manufacturing Processes</i> , 2018 , 36, 465-479	5	15
68	Design of experiments applied to environmental variables analysis in electricity utilities efficiency: The Brazilian case. <i>Energy Economics</i> , 2014 , 45, 111-119	8.3	14
67	Portfolio optimization using Mixture Design of Experiments: Scheduling trades within electricity markets. <i>Energy Economics</i> , 2011 , 33, 24-32	8.3	14
66	Robust weighting applied to optimization of AISI H13 hardened-steel turning process with ceramic wiper tool: A diversity-based approach. <i>Precision Engineering</i> , 2017 , 50, 235-247	2.9	13
65	Mathematical Modeling of Weld Bead Geometry, Quality, and Productivity for Stainless Steel Claddings Deposited by FCAW. <i>Journal of Materials Engineering and Performance</i> , 2012 , 21, 1862-1872	1.6	13
64	Proposed method for contracting of wind-photovoltaic projects connected to the Brazilian electric system using multiobjective programming. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 97, 377-389	16.2	13

63	A multivariate surface roughness modeling and optimization under conditions of uncertainty. <i>Measurement: Journal of the International Measurement Confederation</i> , 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. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017 , 39, 1663-1681	2	12
61	Multiobjective portfolio optimization of ARMA-GARCH time series based on experimental designs. <i>Computers and Operations Research</i> , 2016 , 66, 434-444	4.6	11
60	A multivariate normal boundary intersection PCA-based approach to reduce dimensionality in optimization problems for LBM process. <i>Engineering With Computers</i> , 2019 , 35, 1533-1544	4.5	11
59	Simulating Electricity Spot Prices in Brazil Using Neural Network and Design of Experiments 2007 ,		10
58	Economic planning of wind farms from a NBI-RSM-DEA multiobjective programming. <i>Renewable Energy</i> , 2020 , 158, 628-641	8.1	9
57	An experimental approach for developing radio frequency identification (RFID) ready packaging. <i>Journal of Cleaner Production</i> , 2014 , 85, 371-381	10.3	9
56	Multivariate robust modeling and optimization of cutting forces of the helical milling process of the aluminum alloy Al 7075. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 95, 2691-2715	3.2	9
55	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. <i>International Journal of Production Economics</i> , 2019 , 212, 186-211	9.3	8
54	Multivariate process capability analysis applied to AISI 52100 hardened steel turning. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 95, 3513-3522	3.2	8
53	Aircraft interior failure pattern recognition utilizing text mining and neural networks. <i>Journal of Intelligent Information Systems</i> , 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. <i>IEEE Access</i> , 2020 , 8, 34246-34255	3.5	7
51	. <i>IEEE Access</i> , 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. <i>Acta Scientiarum - Technology</i> , 2015 , 37, 361	0.5	7
49	A multivariate descriptor method for change-point detection in nonlinear time series. <i>Journal of Applied Statistics</i> , 2011 , 38, 327-342	1	7
48	A decision support tool for operational planning: a Digital Twin using simulation and forecasting methods. <i>Production</i> , 2020 , 30,	1.3	7
47	Evaluating economic feasibility and maximization of social welfare of photovoltaic projects developed for the Brazilian northeastern coast: An attribute agreement analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 123, 109786	16.2	6
46	Multivariate mean square error for the multiobjective optimization of AISI 52100 hardened steel turning with wiper ceramic inserts tool: a comparative study. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017 , 39, 4021-4036	2	6

45	A DOE based approach for the design of RBF artificial neural networks applied to prediction of surface roughness in AISI 52100 hardened steel turning. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2010 , 32, 503-510	2	6
44	Wind energy investments facing uncertainties in the Brazilian electricity spot market: A real options approach. <i>Sustainable Energy Technologies and Assessments</i> , 2020 , 42, 100876	4.7	6
43	The Influence of Accreditation on the Sustainability of Organizations with the Brazilian Accreditation Methodology. <i>Journal of Healthcare Engineering</i> , 2018 , 2018, 1393585	3.7	5
42	Prediction capability of Pareto optimal solutions: A multi-criteria optimization strategy based on model capability ratios. <i>Precision Engineering</i> , 2019 , 59, 185-210	2.9	5
41	Pattern recognition in audible sound energy emissions of AISI 52100 hardened steel turning: a MFCC-based approach. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 88, 1383-1392	3.2	5
40	Regulatory impact of photovoltaic prosumer policies in Brazil based on a financial risk analysis. <i>Utilities Policy</i> , 2021 , 70, 101214	3.3	5
39	Contribution for bidding of wind-photovoltaic on grid farms based on NBI-EFA-SNR method. <i>Sustainable Energy Technologies and Assessments</i> , 2020 , 40, 100754	4.7	4
38	Six Sigma learning evaluation model using Bloom's Taxonomy. <i>International Journal of Lean Six Sigma</i> , 2018 , 9, 156-174	4.6	4
37	Otimizaço do processo de soldagem FCAW usando o erro quadrtico mdio multivariado. <i>Soldagem E Inspecao</i> , 2010 , 15, 31-40	0.3	4
36	A Design of Experiments Comparative Study on Clustering Methods. <i>IEEE Access</i> , 2019 , 7, 167726-167738	3.5	4
35	Toward a robust optimal point selection: a multiple-criteria decision-making process applied to multi-objective optimization using response surface methodology. <i>Engineering With Computers</i> , 2020 , 37, 2735	4.5	3
34	Entropic Data Envelopment Analysis: A Diversification Approach for Portfolio Optimization. <i>Entropy</i> , 2017 , 19, 352	2.8	3
33	Crack avoidance in steel piston rings through the optimization of process and gas nitriding parameters. <i>International Journal of Advanced Manufacturing Technology</i> , 2011 , 56, 397-409	3.2	3
32	Comparison of Neural Networks and Logistic Regression in Assessing the Occurrence of Failures in Steel Structures of Transmission Lines. <i>Open Electrical and Electronic Engineering Journal</i> , 2016 , 10, 11-26	0	3
31	Comparisons of multivariate GR&R methods using bootstrap confidence interval. <i>Acta Scientiarum - Technology</i> , 2016 , 38, 489	0.5	3
30	A new multiobjective optimization with elliptical constraints approach for nonlinear models implemented in a stainless steel cladding process. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 113, 1469-1484	3.2	3
29	Anlise das Causas de Variao Atribuídas a Diferentes Instrumentos Metrolgicos para Verificao das Caractersticas Geomtricas de um Processo de Soldagem por Pontos. <i>Soldagem E Inspecao</i> , 2018 , 23, 485-504	0.3	3
28	Stochastic Optimization of AISI 52100 Hard Turning With Six Sigma Capability Constraint. <i>IEEE Access</i> , 2019 , 7, 46288-46294	3.5	2

27	Optimization of AISI 1045 end milling using robust parameter design. <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 84, 1185	3.2	2
26	Experimental Design and Data collection of a finishing end milling operation of AISI 1045 steel. <i>Data in Brief</i> , 2016 , 6, 609-13	1.2	2
25	Impact of stochastic industrial variables on the cost optimization of AISI 52100 hardened-steel turning process. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 104, 4331-4340	3.2	2
24	Development of a special geometry carbide tool for the optimization of vertical turning of martensitic gray cast iron piston rings. <i>International Journal of Advanced Manufacturing Technology</i> , 2012 , 63, 523-534	3.2	2
23	Otimizaço do desempenho de amplificadores de radiofrequncia banda larga: uma abordagem experimental. <i>Production</i> , 2011 , 21, 118-131	1.3	2
22	FCAW process optimization using the multivariate mean square error. <i>Welding International</i> , 2012 , 26, 79-86	0.1	2
21	Mixture design of experiments on portfolio optimisation of power generation. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 322-329	2.5	1
20	A Didactic Activity for Introducing Design and Optimization of Experiments Assisted by Revised Bloom's Taxonomy. <i>International Journal of Higher Education</i> , 2014 , 3,	0.7	1
19	Magneto-rheological fluids redispersibility in factorial design study of phosphate shell on carbonyl iron powder with dispersing additives. <i>Journal of Physics: Conference Series</i> , 2009 , 149, 012036	0.3	1
18	Otimizaço de mltiplos objetivos na soldagem de revestimento de chapas de ao carbono ABNT 1020 utilizando arame tubular inoxidvel austentico. <i>Soldagem E Inspecao</i> , 2011 , 16, 232-342	0.3	1
17	Modeling the Power Sector of Wonderland: an integrated system dynamics model to assess a sustainable regional development 2021 ,		1
16	Impact of Dynamic Thermal Limits of Transmission Lines on Power System Operation. <i>IEEE Latin America Transactions</i> , 2016 , 14, 1259-1264	0.7	0
15	Optimizing production in machining of hardened steels using response surface methodology. <i>Acta Scientiarum - Technology</i> , 2019 , 41, 38091	0.5	0
14	Normal Boundary Intersection with factor analysis approach for multiobjective stochastic optimization of a cladding process focusing on reduction of energy consumption and rework. <i>Journal of Cleaner Production</i> , 2022 , 333, 129915	10.3	0
13	Combining machine learning techniques with Kappa-Kendall indexes for robust hard-cluster assessment in substation pattern recognition. <i>Electric Power Systems Research</i> , 2022 , 206, 107778	3.5	0
12	Optimal tuning of the control parameters of an inverter-based microgrid using the methodology of design of experiments. <i>IET Power Electronics</i> , 2020 , 13, 3651-3660	2.2	0
11	Modelling and design of wind-solar hybrid generation projects in long-term energy auctions: a multi-objective optimisation approach. <i>IET Renewable Power Generation</i> , 2020 , 14, 2612-2619	2.9	0
10	A PCA-Based Consistency and Sensitivity Approach for Assessing Linkage Methods in Voltage Sag Studies. <i>IEEE Access</i> , 2021 , 9, 84871-84885	3.5	0

9	Multi-objective optimization algorithm for analysis of hardened steel turning manufacturing process. <i>Applied Mathematical Modelling</i> , 2022 , 106, 822-843	4.5	0
8	The monitoring of mean vectors with VCS charts for multivariate processes. <i>Journal of Statistical Computation and Simulation</i> , 2020 , 90, 1897-1920	0.9	
7	Short-term forecasting models for automated data backup system: segmented regression analysis. <i>Acta Scientiarum - Technology</i> , 2020 , 42, e46073	0.5	
6	Stochastic evaluation of robust portfolios based on hierarchical clustering and worst-case scenarios. <i>Acta Scientiarum - Technology</i> , 2017 , 39, 623	0.5	
5	A Multi-aspect Dynamic System Model to Assess Poverty Traps. <i>Studies in Applied Philosophy, Epistemology and Rational Ethics</i> , 2022 , 393-417	0.3	
4	Statistics and Engineering. <i>Studies in Applied Philosophy, Epistemology and Rational Ethics</i> , 2022 , 173-193	0.3	
3	Detecção de mudança de nível em séries temporais não lineares usando Descritores de Hjorth. <i>Production</i> , 2015 , 25, 812-825	1.3	
2	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. <i>International Journal of Advanced Manufacturing Technology</i> , 1	3.2	
1	Project Portfolio Selection of Solar Energy by Photovoltaic Generation Using Gini-CAPM Multi-Criteria and Considering ROI Covariations. <i>Energies</i> , 2021 , 14, 8374	3.1	