

List of Publications by Year in
Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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
100	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
99	Multi-objective optimization algorithm for analysis of hardened steel turning manufacturing process. <i>Applied Mathematical Modelling</i> , 2022 , 106, 822-843	4.5	0
98	Multivariate steepest ascent method based on latent variables. <i>Applied Mathematical Modelling</i> , 2021 , 90, 30-45	4.5	0
97	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
96	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
95	Short-term forecasting models for automated data backup system: segmented regression analysis. <i>Acta Scientiarum - Technology</i> , 2020 , 42, e46073	0.5	
94	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
93	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
92	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
91	. <i>IEEE Access</i> , 2020 , 8, 61267-61276	3.5	7
90	DESIGN OF EXPERIMENTS AND COMPUTATIONAL FLUID DYNAMICS APPROACH TO IMPROVE THE PRODUCT DESIGN PROCESS. <i>Brazilian Journal of Development</i> , 2020 , 6, 57096-57106	0	
89	Enhancement of discriminatory power by ellipsoidal functions for substation clustering in voltage sag studies. <i>Electric Power Systems Research</i> , 2020 , 185, 106368	3.5	6
88	Surface roughness diagnosis in hard turning using acoustic signals and support vector machine: A PCA-based approach. <i>Applied Acoustics</i> , 2020 , 159, 107102	3.1	14
87	Multivariate data quality assessment based on rotated factor scores and confidence ellipsoids. <i>Decision Support Systems</i> , 2020 , 129, 113173	5.6	10
86	Multivariate Taguchi loss function optimization based on principal components analysis and normal boundary intersection. <i>Engineering With Computers</i> , 2020 , 1	4.5	7
85	Nonlinear optimization strategy based on multivariate prediction capability ratios: Analytical schemes and model validation for duplex stainless steel end milling. <i>Precision Engineering</i> , 2020 , 66, 229-234	2.9	3

84	A Gage Study Through the Weighting of Latent Variables Under Orthogonal Rotation. <i>IEEE Access</i> , 2020 , 8, 183557-183570	3.5	5
83	Robust optimisation of surface roughness of AISI H13 hardened steel in the finishing milling using ball nose end mills. <i>Precision Engineering</i> , 2019 , 60, 194-214	2.9	12
82	A new multivariate approach based on weighted factor scores and confidence ellipses to precision evaluation of textured fiber bobbins measurement system. <i>Precision Engineering</i> , 2019 , 60, 520-534	2.9	10
81	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
80	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
79	Hybrid multiobjective optimization algorithm based on multivariate mean square error and fuzzy decision maker. <i>Applied Soft Computing Journal</i> , 2019 , 82, 105586	7.5	2
78	Stochastic Optimization of AISI 52100 Hard Turning With Six Sigma Capability Constraint. <i>IEEE Access</i> , 2019 , 7, 46288-46294	3.5	2
77	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
76	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
75	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
74	Measurement data from bobbins of Partially Oriented Yarns: Univariate and multivariate aspects. <i>Data in Brief</i> , 2019 , 27, 104637	1.2	1
73	Robust optimization of energy consumption during mechanical processing of wood. <i>European Journal of Wood and Wood Products</i> , 2019 , 77, 1211-1220	2.1	2
72	A Design of Experiments Comparative Study on Clustering Methods. <i>IEEE Access</i> , 2019 , 7, 167726-167738	3.5	4
71	Fuzzy multivariate mean square error in equispaced pareto frontiers considering manufacturing process optimization problems. <i>Engineering With Computers</i> , 2019 , 35, 1213-1236	4.5	3
70	Robust modeling and optimization of borehole enlarging by helical milling of aluminum alloy Al7075. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 100, 2583-2599	3.2	5
69	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
68	Correlation analysis among audible sound emissions and machining parameters in hardened steel turning. <i>Journal of Intelligent Manufacturing</i> , 2019 , 30, 1753-1764	6.7	6
67	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

66	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
65	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, 2691-2713	3.2	9
64	Aplicação da Metodologia de Superfície de Resposta para Otimização do Processo de Solda a Ponto no Aço Galvanizado AISI 1006. <i>Soldagem E Inspecao</i> , 2018 , 23, 129-142	0.3	6
63	A review of helical milling process. <i>International Journal of Machine Tools and Manufacture</i> , 2017 , 120, 27-48	9.4	70
62	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
61	Multi-objective robust optimization of the sustainable helical milling process of the aluminum alloy Al 7075 using the augmented-enhanced normalized normal constraint method. <i>Journal of Cleaner Production</i> , 2017 , 152, 474-496	10.3	19
60	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
59	Stochastic evaluation of robust portfolios based on hierarchical clustering and worst-case scenarios. <i>Acta Scientiarum - Technology</i> , 2017 , 39, 623	0.5	
58	Photovoltaic electricity production in Brazil: A stochastic economic viability analysis for small systems in the face of net metering and tax incentives. <i>Journal of Cleaner Production</i> , 2017 , 168, 1448-1462	10.3	32
57	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
56	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
55	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
54	Mixture design of experiments on portfolio optimisation of power generation. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 322-329	2.5	1
53	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
52	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
51	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
50	Design of experiments and focused grid search for neural network parameter optimization. <i>Neurocomputing</i> , 2016 , 186, 22-34	5.4	82
49	Combining Scott-Knott and GR&R methods to identify special causes of variation. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016 , 82, 135-144	4.6	14

48	Robust parameter optimization based on multivariate normal boundary intersection. <i>Computers and Industrial Engineering</i> , 2016 , 93, 55-66	6.4	19
47	A PCA-based approach for substation clustering for voltage sag studies in the Brazilian new energy context. <i>Electric Power Systems Research</i> , 2016 , 136, 31-42	3.5	14
46	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
45	Normal boundary intersection method based on principal components and Taguchi's signal-to-noise ratio applied to the multiobjective optimization of 12L14 free machining steel turning process. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 87, 825-834	3.2	21
44	Optimization methodology of alternating current P-GMAW process by voltage-current signal analysis. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 86, 565-580	3.2	3
43	Comparisons of multivariate GR&R methods using bootstrap confidence interval. <i>Acta Scientiarum - Technology</i> , 2016 , 38, 489	0.5	3
42	Multivariate global index and multivariate mean square error optimization of AISI 1045 end milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 87, 3195-3209	3.2	3
41	Wind power generation: An impact analysis of incentive strategies for cleaner energy provision in Brazil. <i>Journal of Cleaner Production</i> , 2016 , 137, 1100-1108	10.3	42
40	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
39	Factorial design analysis applied to the performance of SMS anti-spam filtering systems. <i>Expert Systems With Applications</i> , 2016 , 64, 589-604	7.8	11
38	Stochastic portfolio optimization using efficiency evaluation. <i>Management Decision</i> , 2015 , 53, 1698-1713	4.4	5
37	Entropy-Based Weighting for Multiobjective Optimization: An Application on Vertical Turning. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-11	1.1	16
36	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
35	Detecção de mudança de nível em séries temporais não lineares usando Descritores de Hjorth. <i>Production</i> , 2015 , 25, 812-825	1.3	
34	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
33	The Machinability of Hard Materials [A Review 2014 , 145-173		3
32	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
31	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

30	Weighted approach for multivariate analysis of variance in measurement system analysis. <i>Precision Engineering</i> , 2014 , 38, 651-658	2.9	21
29	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
28	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
27	A new multivariate gage R&R method for correlated characteristics. <i>International Journal of Production Economics</i> , 2013 , 144, 301-315	9.3	37
26	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
25	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
24	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
23	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
22	Multivariate Optimization of the Cutting Parameters when Turning Slender Components. <i>International Journal of Manufacturing, Materials, and Mechanical Engineering</i> , 2012 , 2, 12-31	0.5	5
21	Portland cement with additives in the repair of furcation perforations in dogs. <i>Acta Cirurgica Brasileira</i> , 2012 , 27, 809-14	1.6	14
20	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
19	Global Criterion Method Based on Principal Components to the Optimization of Manufacturing Processes with Multiple Responses. <i>Strojniski Vestnik/Journal of Mechanical Engineering</i> , 2012 , 58, 345-353	1.3	17
18	FCAW process optimization using the multivariate mean square error. <i>Welding International</i> , 2012 , 26, 79-86	0.1	2
17	Otimizaç�o do desempenho de amplificadores de radiofrequ�ncia banda larga: uma abordagem experimental. <i>Production</i> , 2011 , 21, 118-131	1.3	2
16	A multivariate descriptor method for change-point detection in nonlinear time series. <i>Journal of Applied Statistics</i> , 2011 , 38, 327-342	1	7
15	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
14	Portfolio optimization using Mixture Design of Experiments: Scheduling trades within electricity markets. <i>Energy Economics</i> , 2011 , 33, 24-32	8.3	14
13	Modeling and Optimization of Multiple Characteristics in the AISI 52100 Hardened Steel Turning. <i>Advanced Materials Research</i> , 2011 , 223, 545-553	0.5	3

12	Otimiza�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
11	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
10	Otimiza�o do processo de soldagem FCAW usando o erro quadr�tico m�dio multivariado. <i>Soldagem E Inspecao</i> , 2010 , 15, 31-40	0.3	4
9	Sensitivity analysis in discrete-event simulation using fractional factorial designs. <i>Journal of Simulation</i> , 2010 , 4, 128-142	1.9	9
8	Artificial neural networks for machining processes surface roughness modeling. <i>International Journal of Advanced Manufacturing Technology</i> , 2010 , 49, 879-902	3.2	51
7	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
6	Design of experiments on neural network's training for nonlinear time series forecasting. <i>Neurocomputing</i> , 2009 , 72, 1160-1178	5.4	94
5	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
4	Optimization of the FCAW process by weld bead geometry analysis. <i>Welding International</i> , 2009 , 23, 261-269	2	2
3	An�lise de modelo para projeto e desenvolvimento de servi�os: uma pesquisa-a�o em uma empresa de transporte rodovi�rio de passageiros. <i>Gest�o & Produ�o</i> , 2008 , 15, 491-505	0.9	2
2	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
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. <i>International Journal of Advanced Manufacturing Technology</i> , 2007 , 31, 1-10	3.2	1