Cristiano Alexandre Virginio Cavalcante

List of Publications by Year
in descending order

55 papers	1,389 citations	279798 23 h-index	345221 36 g-index
60 all docs	60 docs citations	60 times ranked	718 citing authors

#	Article	IF	Citations
1	Multicriteria and Multiobjective Models for Risk, Reliability and Maintenance Decision Analysis. Profiles in Operations Research, 2015, , .	0.4	102
2	A multi-criteria decision model to determine inspection intervals of condition monitoring based on delay time analysis. Reliability Engineering and System Safety, 2009, 94, 905-912.	8.9	98
3	Imperfect inspection and replacement of a system with a defective state: A cost and reliability analysis. Reliability Engineering and System Safety, 2013, 120, 80-87.	8.9	93
4	A review of the use of multicriteria and multi-objective models in maintenance and reliability. IMA Journal of Management Mathematics, 2015, 26, 249-271.	1.6	82
5	Maintenance scheduling of a protection system subject to imperfect inspection and replacement. European Journal of Operational Research, 2012, 218, 716-725.	5.7	75
6	Modelling quality in replacement and inspection maintenance. International Journal of Production Economics, 2012, 135, 372-381.	8.9	66
7	A study of postponed replacement in a delay time model. Reliability Engineering and System Safety, 2017, 168, 70-79.	8.9	59
8	An Age-Based Inspection and Replacement Policy for Heterogeneous Components. IEEE Transactions on Reliability, 2009, 58, 641-648.	4.6	53
9	A general inspection and opportunistic replacement policy for one-component systems of variable quality. European Journal of Operational Research, 2018, 266, 911-919.	5.7	52
10	Hybrid block replacement and inspection policies for a multi-component system with heterogeneous component lives. European Journal of Operational Research, 2010, 206, 384-394.	5.7	48
11	A multiâ€criteria decisionâ€aiding model using PROMETHEE III for preventive maintenance planning under uncertain conditions. Journal of Quality in Maintenance Engineering, 2007, 13, 385-397.	1.7	47
12	Multi-criteria model to support the definition of opportunistic maintenance policy: A study in a cogeneration system. Energy, 2015, 80, 32-40.	8.8	46
13	A preventive maintenance decision model based on multicriteria method PROMETHEE II integrated with Bayesian approach. IMA Journal of Management Mathematics, 2010, 21, 333-348.	1.6	44
14	Use of Promethee method to determine the best alternative for warehouse storage location assignment. International Journal of Advanced Manufacturing Technology, 2014, 70, 1615-1624.	3.0	41
15	Delay-time modelling of a critical system subject to random inspections. European Journal of Operational Research, 2019, 278, 772-782.	5.7	38
16	A study of a two-phase inspection policy for a preparedness system with a defective state and heterogeneous lifetime. Reliability Engineering and System Safety, 2011, 96, 627-635.	8.9	35
17	The Effect of Maintenance Quality on Spare Parts Inventory for a Fleet of Assets. IEEE Transactions on Reliability, 2013, 62, 596-607.	4.6	31
18	Modelling inspection and replacement quality for a protection system. Reliability Engineering and System Safety, 2018, 176, 145-153.	8.9	29

#	Article	IF	Citations
19	Imperfect Inspection of a System With Unrevealed Failure and an Unrevealed Defective State. IEEE Transactions on Reliability, 2019, 68, 764-775.	4.6	29
20	Some Insights Into the Effect of Maintenance Quality for a Protection System. IEEE Transactions on Reliability, 2015, 64, 661-672.	4.6	26
21	Inspection and replacement policy with a fixed periodic schedule. Reliability Engineering and System Safety, 2021, 208, 107402.	8.9	26
22	Modelling imperfect inspection over a finite horizon. Reliability Engineering and System Safety, 2013, 111, 18-29.	8.9	24
23	Conditional inspection and maintenance of a system with two interacting components. European Journal of Operational Research, 2018, 268, 533-544.	5.7	24
24	Modelo multicritÃ©rio de apoio a decisÃ£o para o planejamento de manutenÃ§Ã£o preventiva utilizando PROMETHEE II em situaÃ§Ãµes de incerteza. Pesquisa Operacional, 2005, 25, 279-296.	0.4	21
25	Electre tri method used to storage location assignment into categories. Pesquisa Operacional, 2013, 33, 283-303.	0.4	21
26	Multicriteria Decision Model to Support the Assignment of Storage Location of Products in a Warehouse. Mathematical Problems in Engineering, 2015, 2015, 1-8.	1.1	19
27	Multicriteria Model to Support Maintenance Planning in Residential Complexes under Warranty. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	3.8	18
28	Delay-time inspection model with dimensioning maintenance teams: A study of a company leasing construction equipment. Computers and Industrial Engineering, 2015, 88, 341-349.	6.3	15
29	Using the Efficient Frontier to Obtain the Best Solution for the Storage Location Assignment Problem. Mathematical Problems in Engineering, 2014, 2014, 1-10.	1.1	14
30	An integrated model of production scheduling and inspection planning for resumable jobs. International Journal of Production Economics, 2020, 227, 107668.	8.9	12
31	The use of second-hand items based on delay time modelling. Chemical Engineering Research and Design, 2021, 146, 118-125.	5.6	12
32	A dynamic inventory rationing policy for business-to-consumer e-tail stores in a supply disruption context. Computers and Industrial Engineering, 2020, 142, 106379.	6.3	11
33	Order planning policies for business-to-consumer e-tail stores. Computers and Industrial Engineering, 2019, 136, 106-116.	6.3	9
34	A two-scale maintenance policy for protection systems subject to shocks when meeting demands. Reliability Engineering and System Safety, 2020, 204, 107118.	8.9	9
35	A multicriteria decision model to support the selection of suppliers of motor repair services. International Journal of Advanced Manufacturing Technology, 2016, 84, 523-532.	3.0	7
36	A study on the economic and environmental viability of second-hand items in maintenance policies. Reliability Engineering and System Safety, 2022, 217, 108133.	8.9	7

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37	Opportunistic Maintenance Policy for a System with Hidden Failures: A Multicriteria Approach Applied to an Emergency Diesel Generator. Mathematical Problems in Engineering, 2014, 2014, 1-11.	1.1	6
38	Random preventive maintenance policy based on inspection for a multicomponent system using simulation. Eksploatacja I Niezawodnosc, 2017, 19, 552-559.	2.0	6
39	Aplicabilidade da programaÃ§Ã£o matemÃ¡tica multiobjetivo no planejamento da expansÃ£o de longo prazo da geraÃ§Ã£o no Brasil. Pesquisa Operacional, 2009, 29, 153-177.	0.4	5
40	Using multi-criteria decision making for selecting picking strategies. Operational Research, 2020, , 1.	2.0	4
41	An inspection policy for shredder equipment used in steel production lines considering buffer level and operating time. Journal of Manufacturing Systems, 2021, 60, 640-651.	13.9	4
42	Maintenance Management:A Study of Reliability-CenteredMaintenance for Irrigation System. Applied Engineering in Agriculture, 2015, , 227-234.	0.7	3
43	Multi-attribute Utility Theory analysis for burn-in processes combined with replacement. Eksploatacja I Niezawodnosc, 2016, 18, 599-605.	2.0	3
44	A Decision Support System Based on RCM Approach to Define Maintenance Strategies. Lecture Notes in Business Information Processing, 2013, , 122-133.	1.0	3
45	A study of the different relations between disruptive events and human factors and their effects on maintenance performance. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2023, 237, 592-603.	0.7	2
46	Location of Back-up Transformers. , 2006, , .		1
47	Ãndices baseados no nÃºmero de clientes para localizaÃ§Ã£o de itens em armazÃ©ns. Production, 2013, 23, 561-569.	1.3	1
48	A two-phase inspection policy for a single component preparedness system with a mixed time to failure distribution. , 2009, , .		1
49	A Multicriteria Decision Model for a Combined Burn-In and Replacement Policy. Lecture Notes in Computer Science, 2011, , 579-593.	1.3	1
50	Decisions on Priority Assignment for Maintenance Planning. Profiles in Operations Research, 2015, , 335-349.	0.4	1
51	Spare Parts Planning Decisions. Profiles in Operations Research, 2015, , 273-296.	0.4	1
52	A hybrid maintenance policy with fixed periodic structure and opportunistic replacement. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2023, 237, 579-591.	0.7	1
53	A Multicriteria Model to Determine Maintenance Policy for a Protection System Subject to Imperfect Maintenance. Profiles in Operations Research, 2022, , 203-226.	0.4	1
54	Reliability and Maintenance Cost Forecasting for Systems with Multistate Components Using Artificial Neural Networks. , 2019, , .		0

#	Article	IF	Citations
55	An Alternative Maintenance Policy for Protection Systems Subject to Shocks Due to Demands. , 2020, , .		0