MÃ¡rcio das Chagas Moura

List of Publications by Year
in descending order

45 papers	798 citations	687335 13 h-index	526264 27 g-index
46 all docs	46 docs citations	46 times ranked	759 citing authors

#	Article	IF	Citations
1	A probabilistic epidemiological model for infectious diseases: The case of COVID–19 at global–level. Risk Analysis, 2023, 43, 183-201.	2.7	3
2	Bayesian prior distribution based on generic data and experts' opinion: A case study in the O&G industry. Journal of Petroleum Science and Engineering, 2022, 210, 109891.	4.2	5
3	Identification of risk features using text mining and BERT-based models: Application to an oil refinery. Chemical Engineering Research and Design, 2022, 158, 382-399.	5.6	19
4	A Bayesian population variability based method for estimating frequency of maritime accidents. Chemical Engineering Research and Design, 2022, 163, 308-320.	5.6	4
5	Risk-based cost-benefit analysis of alternative vaccines against COVID-19 in Brazil: Coronavac vs. Astrazeneca vs. Pfizer. Vaccine, 2022, 40, 3851-3860.	3.8	3
6	Automatic drowsiness detection for safety-critical operations using ensemble models and EEG signals. Chemical Engineering Research and Design, 2022, 164, 566-581.	5.6	15
7	Seroprevalence of SARS-CoV-2 on health professionals via Bayesian estimation: a Brazilian case study before and after vaccines. Acta Tropica, 2022, 233, 106551.	2.0	1
8	Development of a probabilistic model for quantitative risk assessment of COVID-19 in Brazil. International Journal of Modern Physics C, 2021, 32, 2150069.	1.7	3
9	A novel quantitative ecological and microbial risk assessment methodology: theory and practice. Human and Ecological Risk Assessment (HERA), 2020, 26, 1622-1645.	3.4	3
10	A multi-objective approach for solving a replacement policy problem for equipment subject to imperfect repairs. Applied Mathematical Modelling, 2020, 86, 1-19.	4.2	5
11	Optimization of Investments in the Resilience of Water Distribution Systems Subject to Interruptions. Water Resources Management, 2020, 34, 929-954.	3.9	2
12	Application of data-based prediction methods in newsvendor problems subject to purchase price uncertainty. , 2020, , .		0
13	Deep variational auto-encoders: A promising tool for dimensionality reduction and ball bearing elements fault diagnosis. Structural Health Monitoring, 2019, 18, 1092-1128.	7.5	94
14	Particle swarm-optimized support vector machines and pre-processing techniques for remaining useful life estimation of bearings. Eksploatacja I Niezawodnosc, 2019, 21, 610-618.	2.0	22
15	Virtual Reality to Improve the Emergency Team Preparation in an Oil Refinery. , 2019, , .		0
16	A Principal-agent Approach for Designing Maintenance Service Contracts. , 2019, , .		0
17	Convolutional Neural Network for remaining useful life prediction based on vibration signal. , 2019, , .		0
18	Combining Generalized Renewal Processes with Non-Extensive Entropy-Based q-Distributions for Reliability Applications. Entropy, 2018, 20, 223.	2.2	4

#	Article	IF	Citations
19	Extended warranty of medical equipment subject to imperfect repairs: an approach based on generalized renewal process and Stackelberg game. Eksploatacja I Niezawodnosc, 2018, 20, 567-578.	2.0	3
20	Influence of underwater hydrodynamics on oil and gas blowouts off Amazon River Mouth. Tropical Oceanography, 2018, 46, .	0.0	2
21	Stressâ€Strength Reliability Analysis with Extreme Values based on qâ€Exponential Distribution. Quality and Reliability Engineering International, 2017, 33, 457-477.	2.3	13
22	Analysis of extended warranties for medical equipment: A Stackelberg game model using priority queues. Reliability Engineering and System Safety, 2017, 168, 338-354.	8.9	16
23	Non-Stationary Demand Forecasting Based on Empirical Mode Decomposition and Support Vector Machines. IEEE Latin America Transactions, 2017, 15, 1785-1792.	1.6	10
24	Revisiting past refinery accidents from a human reliability analysis perspective: The BP Texas City and the Chevron Richmond accidents. Canadian Journal of Chemical Engineering, 2017, 95, 2293-2305.	1.7	12
25	On the q-Weibull distribution for reliability applications: An adaptive hybrid artificial bee colony algorithm for parameter estimation. Reliability Engineering and System Safety, 2017, 158, 93-105.	8.9	25
26	Embedding resilience in the design of the electricity supply for industrial clients. PLoS ONE, 2017, 12, e0188875.	2.5	7
27	Remaining Useful Life Estimation by Empirical Mode Decomposition and Support Vector Machine. IEEE Latin America Transactions, 2016, 14, 4603-4610.	1.6	21
28	Estimation of expected number of accidents and workforce unavailability through Bayesian population variability analysis and Markov-based model. Reliability Engineering and System Safety, 2016, 150, 136-146.	8.9	15
29	Variable selection and uncertainty analysis of scale growth rate under pre-salt oil wells conditions using support vector regression. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2015, 229, 319-326.	0.7	2
30	Computing confidence and prediction intervals of industrial equipment degradation by bootstrapped support vector regression. Reliability Engineering and System Safety, 2015, 137, 120-128.	8.9	31
31	A Multi-Objective Genetic Algorithm for determining efficient Risk-Based Inspection programs. Reliability Engineering and System Safety, 2015, 133, 253-265.	8.9	29
32	DEFENSE-ATTACK INTERACTION OVER OPTIMALLY DESIGNED DEFENSE SYSTEMS VIA GAMES AND RELIABILITY. Pesquisa Operacional, 2014, 34, 215-235.	0.4	0
33	A competing risk model for dependent and imperfect conditionâ€"based preventive and corrective maintenances. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2014, 228, 590-605.	0.7	6
34	An Ecological Model for Quantitative Risk Assessment for Schistosomiasis: The Case of a Patchy Environment in the Coastal Tropical Area of Northeastern Brazil. Risk Analysis, 2014, 34, 831-846.	2.7	14
35	Prediction of sea surface temperature in the tropical Atlantic by support vector machines. Computational Statistics and Data Analysis, 2013, 61, 187-198.	1.2	78
36	Selection of security system design via games of imperfect information and multi-objective genetic algorithm. Reliability Engineering and System Safety, 2013, 112, 59-66.	8.9	9

#	Article	IF	Citations
37	A particle swarm–optimized support vector machine for reliability prediction. Quality and Reliability Engineering International, 2012, 28, 141-158.	2.3	62
38	Failure and reliability prediction by support vector machines regression of time series data. Reliability Engineering and System Safety, 2011, 96, 1527-1534.	8.9	190
39	Numerical Approach for Assessing System Dynamic Availability Via Continuous Time Homogeneous Semi-Markov Processes. Methodology and Computing in Applied Probability, 2010, 12, 431-449.	1.2	9
40	Mathematical formulation and numerical treatment based on transition frequency densities and quadrature methods for non-homogeneous semi-Markov processes. Reliability Engineering and System Safety, 2009, 94, 342-349.	8.9	25
41	A semi-Markov model with Bayesian belief network based human error probability for availability assessment of downhole optical monitoring systems. Simulation Modelling Practice and Theory, 2008, 16, 1713-1727.	3.8	21
42	Optical monitoring system availability optimization via semi-Markov processes and genetic algorithms. , 2008, , .		0
43	A continuous-time semi-markov bayesian belief network model for availability measure estimation of fault tolerant systems. Pesquisa Operacional, 2008, 28, 355-375.	0.4	6
44	Avaliação bayesiana da eficácia da manutenção via processo de renovação generalizado. Pesquisa Operacional, 2007, 27, 569-589.	0.4	7
45	ROTEIRIZAÇÃO DE VEÃCULOS PARA TRANSPORTE DE FUNCIONÃRIOS â€" ESTUDO DE CASO EM PERNAMBUCO. , 0, , .		0