Edilson Arruda

List of Publications by Year
in descending order

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54	431	840728 11	839512 18
papers	citations	h-index	g-index

55	55	55	498
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modelling and optimal control of multi strain epidemics, with application to COVID-19. PLoS ONE, 2021, 16, e0257512.	2.5	46
2	Optimization model to assess electric vehicles as an alternative for fleet composition in station-based car sharing systems. Transportation Research, Part D: Transport and Environment, 2019, 67, 173-196.	6.8	40
3	A review of the multicriteria decision analysis applied to oil and gas decommissioning problems. Ocean and Coastal Management, 2020, 184, 105000.	4.4	36
4	Inventory management of perishable items in long-term humanitarian operations using Markov Decision Processes. International Journal of Disaster Risk Reduction, 2018, 31, 460-469.	3.9	26
5	Difficulties in access and estimates of public beds in intensive care units in the state of Rio de Janeiro. Revista De Saude Publica, 2016, 50, 19.	1.7	23
6	Stability and optimality of a multi-product production and storage system under demand uncertainty. European Journal of Operational Research, 2008, 188, 406-427.	5.7	22
7	Flattening the curves: on-off lock-down strategies for COVID-19 with an application to Brazil. Journal of Mathematics in Industry, 2021, 11, 2.	1.2	18
8	Optimal Approximation Schedules for a Class of Iterative Algorithms, With an Application to Multigrid Value Iteration. IEEE Transactions on Automatic Control, 2012, 57, 3132-3146.	5.7	15
9	An Optimal Control Approach to HIV Immunology. Applied Mathematics, 2015, 06, 1115-1130.	0.4	15
10	Long-term integrated surgery room optimization and recovery ward planning, with a case study in the Brazilian National Institute of Traumatology and Orthopedics (INTO). European Journal of Operational Research, 2018, 264, 870-883.	5.7	15
11	Massive Blooms of Chattonella subsalsa Biecheler (Raphidophyceae) in a Hypereutrophic, Tropical Estuaryâ€"Guanabara Bay, Brazil. Frontiers in Marine Science, 2019, 6, .	2.5	14
12	DEMAND FORECAST AND OPTIMAL PLANNING OF INTENSIVE CARE UNIT (ICU) CAPACITY. Pesquisa Operacional, 2017, 37, 229-245.	0.4	13
13	Structured evaluation of food loss and waste prevention and avoidable impacts: A simplified method. Waste Management and Research, 2018, 36, 698-707.	3.9	11
14	Dimensionality reduction for multi-criteria problems: An application to the decommissioning of oil and gas installations. Expert Systems With Applications, 2020, 148, 113236.	7.6	11
15	Approximate dynamic programming via direct search in the space of value function approximations. European Journal of Operational Research, 2011, 211, 343-351.	5.7	10
16	Accelerating the convergence of value iteration by using partial transition functions. European Journal of Operational Research, 2013, 229, 190-198.	5.7	10
17	Modeling the integrated mine-to-client supply chain: a survey. International Journal of Mining, Reclamation and Environment, 2020, 34, 247-293.	2.8	10
18	Oil industry value chain simulation with learning agents. Computers and Chemical Engineering, 2018, 111, 199-209.	3.8	7

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19	Time aggregated Markov decision processes via standard dynamic programming. Operations Research Letters, 2011, 39, 193-197.	0.7	6
20	Optimal testing policies for diagnosing patients with intermediary probability of disease. Artificial Intelligence in Medicine, 2019, 97, 89-97.	6.5	6
21	Learning-agent-based simulation for queue network systems. Journal of the Operational Research Society, 2020, 71, 1723-1739.	3.4	6
22	Optimisation and control of the supply of blood bags in hemotherapic centres via Markov decision process with discounted arrival rate. Artificial Intelligence in Medicine, 2020, 104, 101791.	6.5	6
23	Solving average cost Markov decision processes by means of a two-phase time aggregation algorithm. European Journal of Operational Research, 2015, 240, 697-705.	5.7	5
24	Examining the diagnostic pathway for lung cancer patients in Wales using discrete event simulation. Translational Lung Cancer Research, 2021, 10, 1368-1382.	2.8	5
25	Stochastic economic lot sizing and scheduling problem with pitch interval, reorder points and flexible sequence. International Journal of Production Research, 2015, 53, 5948-5961.	7.5	4
26	Factors influencing the delivery of cancer pathways: a summary of the literature. Journal of Health Organization and Management, 2021, 35, 121-139.	1.3	4
27	Stability and optimality of a discrete production and storage model with uncertain demand. , 2004, , .		3
28	Approximate Dynamic Programming Based on Expansive Projections. , 2006, , .		3
29	Optimal approximation schedules for iterative algorithms with application to dynamic programming. , 2007, , .		3
30	Standard dynamic programming applied to time aggregated Markov decision processes. , 2009, , .		3
31	Toward an optimized value iteration algorithm for average cost Markov decision processes. , 2010, , .		3
32	Resource optimization for cancer pathways with aggregate diagnostic demand: a perishable inventory approach. IMA Journal of Management Mathematics, 2021, 32, 221-236.	1.6	3
33	Modelling lung cancer diagnostic pathways using discrete event simulation. Journal of Simulation, 0, , 1-11.	1.5	3
34	Evaluating Brazilian Bid Rounds: the impact of a plan to grant licences to optimize demand in the upstream sector. Journal of World Energy Law and Business, 2017, 10, 235-256.	0.7	2
35	Solution of the 3D Stochastic Stowage Planning for Con-tainer Ships through Representation by Rules. , 2013, , .		2
36	Function approximation for a production and storage problem under uncertainty. , 0, , .		1

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37	An application of convex optimization concepts to approximate dynamic programming. , 2008, , .		1
38	Multi-partition time aggregation for Markov Chains. , 2017, , .		1
39	A model for interactions between immune cells and HIV considering drug treatments. Computational and Applied Mathematics, 2018, 37, 282-295.	1.3	1
40	A multi-cluster time aggregation approach for Markov chains. Automatica, 2019, 99, 382-389.	5.0	1
41	Optimal Control of Aedes Aegypti Mosquitoes by Sterile Insect Technique, Insecticide and Larvicide. , 0, , .		1
42	On Cost Based Algorithm Selection for Problem Solving. American Journal of Operations Research, 2013, 03, 431-438.	0.5	1
43	Optimal Control Model for Vaccination Against H1N1 Flu. Semina: CiÃªncias Exatas E TecnolÃ³gicas, 2020, 41, 105.	0.1	1
44	A solution framework for the integrated periodic supply vessel planning and port scheduling in oil and gas supply logistics. Optimization and Engineering, 2023, 24, 1115-1155.	2.4	1
45	A two-phase time aggregation algorithm for average cost Markov decision processes. , 2012, , .		0
46	WINDOW WALKER â€" A MARKOV-BASED ADAPTIVE BIT WINDOW SELECTION FOR DSP BLOCKS. Journal of Circuits, Systems and Computers, 2012, 21, 1250029.	1.5	0
47	Discounted Markov decision processes via time aggregation. , 2016, , .		0
48	Virtual interpolation of discrete multi-objective programming solutions with probabilistic operation. Controle and Automacao, 2011, 22, 379-389.	0.2	0
49	Adaptive Strategies for Accelerating the Convergence of Average Cost Markov Decision Processes Using a Moving Average Digital Filter. American Journal of Operations Research, 2013, 03, 514-520.	0.5	0
50	Modelo para as InteraÃ§Ãµes entre CÃ©lulas de Defesa Contra o HIV. , 0, , .		0
51	EXPLORATORY FAVORABILITY CLASSIFICATION USING WEIGHTS OF EVIDENCE: A STUDY CASE IN SERGIPE-ALAGOAS BASIN, BRAZIL. Revista Brasileira De Geofisica, 2016, 34, .	0.2	0
52	An Optimal Control Strategy for HIV Treatment. , 0, , .		0
53	Mine-to-client planning with Markov Decision Process. , 2020, , .		0
54	OTIMIZANDO A FILA DE CIRURGIAS POR MEIO DA MODELAGEM MATEMÃ¡TICA / OPTIMIZING THE SURGERY QUEUE THROUGH MATHEMATICAL MODELINGOTIMIZANDO A FILA DE CIRURGIAS POR MEIO DA MODELAGEM MATEMÃ¡TICA / OPTIMIZING THE SURGERY QUEUE THROUGH MATHEMATICAL MODELING. Brazilian Journal of Development, 2020, 6, 91368-91383.	0.1	0