Roman Rodriguez-Aguilar

List of Publications by Year
in descending order

52	215	1306789 7	1125271 13
papers	citations	h-index	g-index

59	59	59	211
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nature-inspired meta-heuristics approaches for charging plug-in hybrid electric vehicle. Wireless Networks, 2020, 26, 4753-4766.	2.0	41
2	Designing a resilient supply chain: An approach to reduce drug shortages in epidemic outbreaks. EAI Endorsed Transactions on Pervasive Health and Technology, 2020, 6, 164260.	0.7	30
3	Fat Tail Model for Simulating Test Systems in Multiperiod Unit Commitment. Mathematical Problems in Engineering, 2015, 2015, 1-7.	0.6	17
4	Financial risk of increasing the follow-up period of breast cancer treatment currently covered by the Social Protection System in Health in MÃ©xico. Cost Effectiveness and Resource Allocation, 2018, 16, 9.	0.6	12
5	Demand Prediction Using a Soft-Computing Approach: A Case Study of Automotive Industry. Applied Sciences (Switzerland), 2020, 10, 829.	1.3	12
6	Maternal mortality in Mexico, beyond millennial development objectives: An age-period-cohort model. PLoS ONE, 2018, 13, e0194607.	1.1	12
7	Design of a Distribution Network Using Primal-Dual Decomposition. Mathematical Problems in Engineering, 2016, 2016, 1-9.	0.6	10
8	Conceptual framework of Digital Health Public Emergency System: digital twins and multiparadigm simulation. EAI Endorsed Transactions on Pervasive Health and Technology, 2020, 6, 164261.	0.7	8
9	Technical evaluation of the opening of facilities in the pharmaceutical industry: optimization to supply chain in Mexico. IFAC-PapersOnLine, 2019, 52, 2692-2697.	0.5	6
10	Impuestos en botanas. Su impacto en precio y consumo en MÃ©xico. Trimestre Economico, 2017, 84, 773-803.	0.1	6
11	Quantum-Behaved Bat Algorithm for Solving the Economic Load Dispatch Problem Considering a Valve-Point Effect. International Journal of Applied Metaheuristic Computing, 2020, 11, 41-57.	0.5	5
12	Proposal for a Comprehensive Environmental Key Performance Index of the Green Supply Chain. Mobile Networks and Applications, 2020, 25, 2161-2171.	2.2	5
13	Structural Dynamics and disruption events in Supply Chains using Fat Tail Distributions. IFAC-PapersOnLine, 2019, 52, 2686-2691.	0.5	4
14	Prices of Mexican Wholesale Electricity Market: An Application of Alpha-Stable Regression. Sustainability, 2019, 11, 3185.	1.6	3
15	Text Mining and Statistical Learning for the Analysis of the Voice of the Customer. Lecture Notes on Data Engineering and Communications Technologies, 2020, , 191-199.	0.5	3
16	A proposed method for design of test cases for economic analysis in power systems. Journal of Applied Research and Technology, 2015, 13, 428-434.	0.6	2
17	Evaluation of inequality and technical efficiency of federal health financing for population without social security per Federal Entity, 2004â€“2012 in MÃ©xico. Journal of Ambient Intelligence and Humanized Computing, 2018, 9, 771-788.	3.3	2
18	The supply chain event management application: a case study. IFAC-PapersOnLine, 2019, 52, 2698-2703.	0.5	2

#	Article	IF	Citations
19	Machine Learning Applied to the Measurement of Quality in Health Services in Mexico: The Case of the Social Protection in Health System. Advances in Intelligent Systems and Computing, 2019, , 560-572.	0.5	2
20	Short-term generation planning by primal and dual decomposition techniques. DYNA (Colombia), 2015, 82, 58-62.	0.2	2
21	Digital Twins andÂBlockchain: Empowering theÂSupply Chain. Lecture Notes in Networks and Systems, 2022, , 450-456.	0.5	2
22	Electric Vehicles asÂDistributed Micro Generation Using Smart Grid forÂDecision Making: Brief Literature Review. Lecture Notes in Networks and Systems, 2022, , 981-991.	0.5	2
23	Microdata Analytics of Out-of-pocket and Catastrophic Health Spending in Mexico: an Analysis by Quantiles. Mobile Networks and Applications, 2022, 27, 2182-2197.	2.2	2
24	Optimal consumption decisions of family networks with similar felicity functions. Wireless Networks, 2020, 26, 5703-5712.	2.0	1
25	Optimization of public resources through an ensemble-learning model to measure quality perception in the social protection system in health of Mexico. Wireless Networks, 2020, 26, 4777-4787.	2.0	1
26	A Hybrid Model to Simulate Test Cases of Electrical Power Systems. Applied Sciences (Switzerland), 2020, 10, 3531.	1.3	1
27	Improving a Manufacturing Process using Recursive Artificial Intelligence. IFIP Advances in Information and Communication Technology, 2021, , 266-275.	0.5	1
28	Sentiment Analysis Model on Twitter About Video Streaming Platforms in Mexico. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 73-87.	0.2	1
29	An Analytical Intelligence Model to Discontinue Products in a Transnational Company. Advances in Intelligent Systems and Computing, 2021, , 812-822.	0.5	1
30	Application of Spectral Clustering for the Detection of High Priority Areas of Attention for COVID-19 in Mexico. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 130-142.	0.2	1
31	A Comprehensive Evaluation of Environmental Projects Through a Multiparadigm Modeling Approach. Advances in Intelligent Systems and Computing, 2021, , 520-529.	0.5	1
32	Main Metric Components in the Generation of Mixed Indicators: An Application of SGVD Methodology. EAI/Springer Innovations in Communication and Computing, 2020, , 195-206.	0.9	1
33	Evaluation of Technical Efficiency of Thermal Power Units in Mexico: Data Envelopment Analysis and Stochastic Frontiers. EAI/Springer Innovations in Communication and Computing, 2018, , 101-122.	0.9	1
34	Technical efficiency of thermal power units through a stochastic frontier. DYNA (Colombia), 2015, 82, 63-68.	0.2	1
35	A proposal for the supply chain design: A digitization approach. EAI Endorsed Transactions on Energy Web, 0, , 164112.	0.3	1
36	Household Expenditure in Health in Mexico, 2016. Advances in Intelligent Systems and Computing, 2020, , 662-670.	0.5	1

#	Article	IF	Citations
37	Financial Impact of Hospital Expenditure In Chronic Diseases For Seguro Popular. Value in Health, 2015, 18, A809.	0.1	0
38	Liberalization of the Mexican Electricity Sector: A Study of Technical Efficiency. EAI/Springer Innovations in Communication and Computing, 2019, , 39-51.	0.9	0
39	Editorial: Optimization Methods, Mobile Networks and Data Analytics: Applications in Engineering and Industry 4.0. Mobile Networks and Applications, 2020, 25, 2103-2104.	2.2	0
40	An analytical intelligence model for the management of resources for the treatment of high-cost diseases: the case of HIV in Mexico. Wireless Networks, 2020, 26, 5825-5834.	2.0	0
41	Design of a Logistics Network Using Analytical Techniques and Agent-Based Simulation. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 216-224.	0.2	0
42	A Nested Unsupervised Learning Model for Classification of SKUâ€™s in a Transnational Company: A Big Data Model. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 715-731.	0.5	0
43	Estimation of the Stochastic Volatility of Oil Prices of the Mexican Basket: An Application of Boosting Monte Carlo Markov Chain Estimation. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 742-754.	0.5	0
44	Guide for Sustainable Project Analysis to Improve Energy Efficiency of Mexican SME. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 12-30.	0.2	0
45	Identification of Trading Strategies Using Markov Chains and Statistical Learning Tools. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 732-741.	0.5	0
46	THE MAHALANOBIS DISTANCE BETWEEN THE HURST COEFFICIENT AND THE ALPHA-STABLE PARAMETER: AN EARLY WARNING INDICATOR OF CRISES. International Journal of Pure and Applied Mathematics, 2016, 110, .	0.2	0
47	Gasto catastrÃ³fico en salud en MÃ©xico y sus factores determinantes, 2002-2014. Gaceta Medica De Mexico, 2017, 153, 757-764.	0.5	0
48	Estimation of Electricity Prices in the Mexican Market. Advances in Intelligent Systems and Computing, 2020, , 11-17.	0.5	0
49	Dynamics of prices and consumption of unhealthy foods as a monitoring tool of the strategy against obesity in Mexico. EAI Endorsed Transactions on Pervasive Health and Technology, 2020, 5, 164218.	0.7	0
50	Statistical Learning Applied to Malware Detection. Lecture Notes on Data Engineering and Communications Technologies, 2020, , 276-294.	0.5	0
51	Backbone Distribution Network Design for the Mexican Automotive Industry. EAI/Springer Innovations in Communication and Computing, 2020, , 41-60.	0.9	0
52	A Hybrid Model for Improving the Performance of Basketball Lineups. EAI/Springer Innovations in Communication and Computing, 2020, , 61-71.	0.9	0