

Raja Jayaraman

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.

74
papers

1,419
citations

21
h-index

35
g-index

83
ext. papers

2,240
ext. citations

3.7
avg. IF

5.58
L-index

#	Paper	IF	Citations
74	Supply Chain Inventory Sharing Using Ethereum Blockchain and Smart Contracts. <i>IEEE Access</i> , 2022 , 10, 2345-2356	3.5	4
73	Trustworthy IoT Data Streaming using Blockchain and IPFS. <i>IEEE Access</i> , 2022 , 1-1	3.5	2
72	Blockchain-based Supply Chain Traceability for COVID-19 personal protective equipment.. <i>Computers and Industrial Engineering</i> , 2022 , 167, 107995	6.4	10
71	Scalable blockchains [A systematic review. <i>Future Generation Computer Systems</i> , 2022 , 126, 136-162	7.5	8
70	Blockchain in oil and gas industry: Applications, challenges, and future trends. <i>Technology in Society</i> , 2022 , 68, 101941	6.3	2
69	Prioritizing Indicators for Sustainability Assessment in Manufacturing Process: An Integrated Approach. <i>Sustainability</i> , 2022 , 14, 3264	3.6	5
68	Blockchain for deep learning: review and open challenges.. <i>Cluster Computing</i> , 2022 , 1-25	2.1	1
67	Blockchain-based Management for Organ Donation and Transplantation. <i>IEEE Access</i> , 2022 , 1-1	3.5	1
66	Blockchain-Based Energy Trading in Electric Vehicles Using an Auctioning and Reputation Scheme. <i>IEEE Access</i> , 2021 , 9, 165542-165556	3.5	2
65	. <i>IEEE Access</i> , 2021 , 9, 151944-151959	3.5	2
64	Blockchain for Electric Vehicles Energy Trading: Requirements, Opportunities, and Challenges. <i>IEEE Access</i> , 2021 , 9, 156947-156961	3.5	2
63	Blockchain-Based Solution for Product Recall Management in the Automotive Supply Chain. <i>IEEE Access</i> , 2021 , 9, 167756-167775	3.5	4
62	. <i>IEEE Access</i> , 2021 , 9, 163016-163032	3.5	0
61	Blockchain-Based Decentralized Digital Manufacturing and Supply for COVID-19 Medical Devices and Supplies. <i>IEEE Access</i> , 2021 , 9, 137923-137940	3.5	2
60	Blockchain-Based Solution for the Administration of Controlled Medication. <i>IEEE Access</i> , 2021 , 9, 145397-145414	3.5	14
59	The Role of Blockchain Technology in Aviation Industry. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2021 , 36, 4-15	2.4	1
58	Blockchain for drug traceability: Architectures and open challenges. <i>Health Informatics Journal</i> , 2021 , 27, 14604582211011228	3	11

57	The role of blockchain technology in telehealth and telemedicine. <i>International Journal of Medical Informatics</i> , 2021 , 148, 104399	5.3	43
56	Surface functionalized highly porous date seed derived activated carbon and MoS nanocomposites for hydrogenation of CO into formic acid. <i>Journal of Hazardous Materials</i> , 2021 , 409, 124980	12.8	18
55	Applications of Blockchain Technology in Clinical Trials: Review and Open Challenges. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 3001-3015	2.5	21
54	Blockchain Architectures for Physical Internet: A Vision, Features, Requirements, and Applications. <i>IEEE Network</i> , 2021 , 35, 174-181	11.4	9
53	Trustworthy Blockchain Gateways for Resource-Constrained Clients and IoT Devices. <i>IEEE Access</i> , 2021 , 1-1	3.5	2
52	Blockchain-Based Forward Supply Chain and Waste Management for COVID-19 Medical Equipment and Supplies. <i>IEEE Access</i> , 2021 , 9, 44905-44927	3.5	34
51	Blockchain-Based Solution for Distribution and Delivery of COVID-19 Vaccines. <i>IEEE Access</i> , 2021 , 9, 71372-71387	3.5	37
50	A Blockchain-Based Approach for Drug Traceability in Healthcare Supply Chain. <i>IEEE Access</i> , 2021 , 9, 9728-9743	3.5	36
49	Design and Implementation of CryptoCargo: A Blockchain-Powered Smart Shipping Container for Vaccine Distribution. <i>IEEE Access</i> , 2021 , 9, 53786-53803	3.5	4
48	The Physical Internet and Maritime Ports: Ready for the Future. <i>IEEE Engineering Management Review</i> , 2021 , 1-1	3.6	3
47	Blockchain applications and architectures for port operations and logistics management. <i>Research in Transportation Business and Management</i> , 2021 , 41, 100620	2.8	34
46	Implementing decentralized auctions using blockchain smart contracts. <i>Technological Forecasting and Social Change</i> , 2021 , 168, 120786	9.5	9
45	COVID-19 Contact Tracing Using Blockchain. <i>IEEE Access</i> , 2021 , 9, 62956-62971	3.5	9
44	appXchain: Application-Level Interoperability for Blockchain Networks. <i>IEEE Access</i> , 2021 , 9, 87777-87793	3.5	13
43	Automating Procurement Contracts in the Healthcare Supply Chain Using Blockchain Smart Contracts. <i>IEEE Access</i> , 2021 , 9, 37397-37409	3.5	31
42	Blockchain for aerospace and defense: Opportunities and open research challenges. <i>Computers and Industrial Engineering</i> , 2021 , 151, 106982	6.4	12
41	Blockchain for Waste Management in Smart Cities: A Survey. <i>IEEE Access</i> , 2021 , 9, 131520-131541	3.5	8
40	Blockchain-Based Solution for the Traceability of Spare Parts in Manufacturing. <i>IEEE Access</i> , 2020 , 8, 100308-100322	3.5	10

39	A Blockchain-Based Approach for the Creation of Digital Twins. <i>IEEE Access</i> , 2020 , 8, 34113-34126	3.5	47
38	. <i>IEEE Access</i> , 2020 , 8, 225777-225791	3.5	6
37	Blockchain for COVID-19: Review, Opportunities, and a Trusted Tracking System 2020 , 45, 9895		1
36	. <i>IEEE Access</i> , 2020 , 8, 188363-188377	3.5	16
35	Blockchain for COVID-19: Review, Opportunities, and a Trusted Tracking System. <i>Arabian Journal for Science and Engineering</i> , 2020 , 45, 1-17	2.5	64
34	A goal programming model to study the impact of R&D expenditures on sustainability-related criteria: the case of Kazakhstan. <i>Management Decision</i> , 2020 , 58, 2497-2512	4.4	2
33	. <i>IEEE Access</i> , 2020 , 8, 182704-182719	3.5	20
32	. <i>IEEE Access</i> , 2020 , 8, 193102-193115	3.5	27
31	Ensuring protocol compliance and data transparency in clinical trials using Blockchain smart contracts. <i>BMC Medical Research Methodology</i> , 2020 , 20, 224	4.7	24
30	Blockchain-Based Solution for COVID-19 Digital Medical Passports and Immunity Certificates. <i>IEEE Access</i> , 2020 , 8, 222093-222108	3.5	38
29	Blockchain-Based Multi-Party Authorization for Accessing IPFS Encrypted Data. <i>IEEE Access</i> , 2020 , 8, 196813-196825	3.5	6
28	Blockchain-Based Verifiable Tracking of Resellable Returned Drugs. <i>IEEE Access</i> , 2020 , 8, 205848-205862	3.5	6
27	Goal Programming Models for Managerial Strategic Decision Making. <i>Studies in Systems, Decision and Control</i> , 2020 , 487-507	0.8	1
26	Environmental sustainability and multifaceted development: multi-criteria decision models with applications. <i>Annals of Operations Research</i> , 2020 , 293, 405-432	3.2	17
25	Evaluation of System Modelling Techniques for Waste Identification in Lean Healthcare Applications. <i>Risk Management and Healthcare Policy</i> , 2020 , 13, 3235-3243	2.8	1
24	Blockchain-Based Soybean Traceability in Agricultural Supply Chain. <i>IEEE Access</i> , 2019 , 7, 73295-73305	3.5	214
23	Improving Opportunities in Healthcare Supply Chain Processes via the Internet of Things and Blockchain Technology. <i>International Journal of Healthcare Information Systems and Informatics</i> , 2019 , 14, 49-65	1.1	34
22	Smart contract-based approach for efficient shipment management. <i>Computers and Industrial Engineering</i> , 2019 , 136, 149-159	6.4	86

21	Managing Product Recalls in Healthcare Supply Chain 2018 ,		3
20	A fuzzy goal programming model to analyze energy, environmental and sustainability goals of the United Arab Emirates. <i>Annals of Operations Research</i> , 2017 , 251, 255-270	3.2	26
19	Multi-criteria decision analysis with goal programming in engineering, management and social sciences: a state-of-the art review. <i>Annals of Operations Research</i> , 2017 , 251, 7-40	3.2	52
18	Planning sustainable development through a scenario-based stochastic goal programming model. <i>Operational Research</i> , 2017 , 17, 789-805	1.6	21
17	A Weighted Goal Programming model for planning sustainable development applied to Gulf Cooperation Council Countries. <i>Applied Energy</i> , 2017 , 185, 1931-1939	10.7	44
16	Optimal control with multiple human papillomavirus vaccines. <i>Journal of Theoretical Biology</i> , 2016 , 393, 179-93	2.3	16
15	A polynomial goal programming model with application to energy consumption and emissions in United Arab Emirates 2015 ,		8
14	Multi-criteria model for sustainable development using goal programming applied to the United Arab Emirates. <i>Energy Policy</i> , 2015 , 87, 447-454	7.2	74
13	An Exploratory Pilot Study on Supply Chain Data Standards in a Hospital Pharmacy. <i>EMJ - Engineering Management Journal</i> , 2015 , 27, 141-151	1.9	4
12	Integrating supply chain data standards in healthcare operations and Electronic Health Records 2015 ,		1
11	Support vector-based algorithms with weighted dynamic time warping kernel function for time series classification. <i>Knowledge-Based Systems</i> , 2015 , 75, 184-191	7.3	33
10	A Goal Programming model with satisfaction function for long-run sustainability in the United Arab Emirates 2015 ,		7
9	Optimal Work Force Allocation for Energy, Economic and Environmental Sustainability in the United Arab Emirates: A Goal Programming Approach. <i>Energy Procedia</i> , 2015 , 75, 2999-3006	2.3	19
8	A decision support tool for healthcare providers to evaluate readiness and impacts of adopting supply chain data standards. <i>IIE Transactions on Healthcare Systems Engineering</i> , 2013 , 3, 110-126		8
7	A Novel GS1 Data Standard Adoption Roadmap for Healthcare Providers 2013 , 41-57		
6	A Novel GS1 Data Standard Adoption Roadmap for Healthcare Providers. <i>International Journal of Healthcare Information Systems and Informatics</i> , 2011 , 6, 42-59	1.1	7
5	On prorated servicing costs for two-dimensional warranties with combined repair-replacement strategies. <i>International Journal of Product Development</i> , 2010 , 12, 274	0.7	3
4	Optimal price and pro rata decisions for combined warranty policies with different repair options. <i>IIE Transactions</i> , 2008 , 40, 984-991		23

3	On multiserver feedback retrial queues with balking and control retrial rate. <i>Annals of Operations Research</i> , 2006 , 141, 211-232	3.2	30
2	Blockchain for healthcare data management: opportunities, challenges, and future recommendations. <i>Neural Computing and Applications</i> ,1	4.8	42
1	The application of operational excellence methodologies in logistics: a systematic review and directions for future research. <i>Total Quality Management and Business Excellence</i> ,1-20	2.7	