Raja Jayaraman

List of Publications by Year
in descending order

83 papers	3,392 citations	136885 32 h-index	155592 55 g-index
83 all docs	83 docs citations	83 times ranked	1884 citing authors

#	Article	IF	Citations
1	Blockchain-Based Soybean Traceability in Agricultural Supply Chain. IEEE Access, 2019, 7, 73295-73305.	2.6	409
2	Blockchain for healthcare data management: opportunities, challenges, and future recommendations. Neural Computing and Applications, 2022, 34, 11475-11490.	3.2	165
3	Blockchain for COVID-19: Review, Opportunities, and a Trusted Tracking System. Arabian Journal for Science and Engineering, 2020, 45, 9895-9911.	1.7	161
4	A Blockchain-Based Approach for Drug Traceability in Healthcare Supply Chain. IEEE Access, 2021, 9, 9728-9743.	2.6	156
5	Smart contract-based approach for efficient shipment management. Computers and Industrial Engineering, 2019, 136, 149-159.	3.4	154
6	The role of blockchain technology in telehealth and telemedicine. International Journal of Medical Informatics, 2021, 148, 104399.	1.6	123
7	Automating Procurement Contracts in the Healthcare Supply Chain Using Blockchain Smart Contracts. IEEE Access, 2021, 9, 37397-37409.	2.6	109
8	A Blockchain-Based Approach for the Creation of Digital Twins. IEEE Access, 2020, 8, 34113-34126.	2.6	102
9	Multi-criteria model for sustainable development using goal programming applied to the United Arab Emirates. Energy Policy, 2015, 87, 447-454.	4.2	96
10	Blockchain-Based Forward Supply Chain and Waste Management for COVID-19 Medical Equipment and Supplies. IEEE Access, 2021, 9, 44905-44927.	2.6	93
11	Blockchain-Based Solution for COVID-19 Digital Medical Passports and Immunity Certificates. IEEE Access, 2020, 8, 222093-222108.	2.6	85
12	Blockchain for Giving Patients Control Over Their Medical Records. IEEE Access, 2020, 8, 193102-193115.	2.6	73
13	Blockchain-based Supply Chain Traceability for COVID-19 personal protective equipment. Computers and Industrial Engineering, 2022, 167, 107995.	3.4	73
14	Blockchain applications and architectures for port operations and logistics management. Research in Transportation Business and Management, 2021, 41, 100620.	1.6	68
15	Blockchain for drug traceability: Architectures and open challenges. Health Informatics Journal, 2021, 27, 146045822110112.	1.1	64
16	Multi-criteria decision analysis with goal programming in engineering, management and social sciences: a state-of-the art review. Annals of Operations Research, 2017, 251, 7-40.	2.6	63
17	Improving Opportunities in Healthcare Supply Chain Processes via the Internet of Things and Blockchain Technology. International Journal of Healthcare Information Systems and Informatics, 2019, 14, 49-65.	1.0	62
18	A Weighted Goal Programming model for planning sustainable development applied to Gulf Cooperation Council Countries. Applied Energy, 2017, 185, 1931-1939.	5.1	61

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19	Enhancing Vendor Managed Inventory Supply Chain Operations Using Blockchain Smart Contracts. IEEE Access, 2020, 8, 182704-182719.	2.6	51
20	Ensuring protocol compliance and data transparency in clinical trials using Blockchain smart contracts. BMC Medical Research Methodology, 2020, 20, 224.	1.4	47
21	Applications of Blockchain Technology in Clinical Trials: Review and Open Challenges. Arabian Journal for Science and Engineering, 2021, 46, 3001-3015.	1.7	47
22	Blockchain-Based Traceability and Management for Additive Manufacturing. IEEE Access, 2020, 8, 188363-188377.	2.6	46
23	Environmental sustainability and multifaceted development: multi-criteria decision models with applications. Annals of Operations Research, 2020, 293, 405-432.	2.6	43
24	Blockchain-Based Solution for the Traceability of Spare Parts in Manufacturing. IEEE Access, 2020, 8, 100308-100322.	2.6	43
25	Blockchain for aerospace and defense: Opportunities and open research challenges. Computers and Industrial Engineering, 2021, 151, 106982.	3.4	43
26	Support vector-based algorithms with weighted dynamic time warping kernel function for time series classification. Knowledge-Based Systems, 2015, 75, 184-191.	4.0	42
27	Implementing decentralized auctions using blockchain smart contracts. Technological Forecasting and Social Change, 2021, 168, 120786.	6.2	40
28	Scalable blockchains â€" A systematic review. Future Generation Computer Systems, 2022, 126, 136-162.	4.9	40
29	Blockchain for deep learning: review and open challenges. Cluster Computing, 2023, 26, 197-221.	3.5	40
30	On multiserver feedback retrial queues with balking and control retrial rate. Annals of Operations Research, 2006, 141, 211-232.	2.6	37
31	Blockchain-Based Solution for Distribution and Delivery of COVID-19 Vaccines. IEEE Access, 2021, 9, 71372-71387.	2.6	37
32	A fuzzy goal programming model to analyze energy, environmental and sustainability goals of the United Arab Emirates. Annals of Operations Research, 2017, 251, 255-270.	2.6	36
33	Blockchain-Based Multi-Party Authorization for Accessing IPFS Encrypted Data. IEEE Access, 2020, 8, 196813-196825.	2.6	32
34	Blockchain for Waste Management in Smart Cities: A Survey. IEEE Access, 2021, 9, 131520-131541.	2.6	32
35	Design and Implementation of CryptoCargo: A Blockchain-Powered Smart Shipping Container for Vaccine Distribution. IEEE Access, 2021, 9, 53786-53803.	2.6	31
36	appXchain: Application-Level Interoperability for Blockchain Networks. IEEE Access, 2021, 9, 87777-87791.	2.6	31

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37	Fully Decentralized Multi-Party Consent Management for Secure Sharing of Patient Health Records. IEEE Access, 2020, 8, 225777-225791.	2.6	31
38	Trustworthy IoT Data Streaming Using Blockchain and IPFS. IEEE Access, 2022, 10, 17707-17721.	2.6	30
39	Supply Chain Inventory Sharing Using Ethereum Blockchain and Smart Contracts. IEEE Access, 2022, 10, 2345-2356.	2.6	29
40	COVID-19 Contact Tracing Using Blockchain. IEEE Access, 2021, 9, 62956-62971.	2.6	27
41	Optimal control with multiple human papillomavirus vaccines. Journal of Theoretical Biology, 2016, 393, 179-193.	0.8	26
42	Surface functionalized highly porous date seed derived activated carbon and MoS2 nanocomposites for hydrogenation of CO2 into formic acid. Journal of Hazardous Materials, 2021, 409, 124980.	6.5	26
43	Optimal price and pro rata decisions for combined warranty policies with different repair options. IIE Transactions, 2008, 40, 984-991.	2.1	25
44	An exploration of organizational readiness factors for Quality 4.0: an intercontinental study and future research directions. International Journal of Quality and Reliability Management, 2023, 40, 582-606.	1.3	25
45	Blockchain in oil and gas industry: Applications, challenges, and future trends. Technology in Society, 2022, 68, 101941.	4.8	23
46	Optimal Work Force Allocation for Energy, Economic and Environmental Sustainability in the United Arab Emirates: A Goal Programming Approach. Energy Procedia, 2015, 75, 2999-3006.	1.8	22
47	Planning sustainable development through a scenario-based stochastic goal programming model. Operational Research, 2017, 17, 789-805.	1.3	22
48	Blockchain Architectures for Physical Internet: A Vision, Features, Requirements, and Applications. IEEE Network, 2021, 35, 174-181.	4.9	20
49	Blockchain-Based Decentralized Digital Manufacturing and Supply for COVID-19 Medical Devices and Supplies. IEEE Access, 2021, 9, 137923-137940.	2.6	18
50	The Role of Blockchain Technology in Aviation Industry. IEEE Aerospace and Electronic Systems Magazine, 2021, 36, 4-15.	2.3	17
51	Blockchain for Electric Vehicles Energy Trading: Requirements, Opportunities, and Challenges. IEEE Access, 2021, 9, 156947-156961.	2.6	17
52	Blockchain-Based Solution for Product Recall Management in the Automotive Supply Chain. IEEE Access, 2021, 9, 167756-167775.	2.6	15
53	Blockchain-Based Verifiable Tracking of Resellable Returned Drugs. IEEE Access, 2020, 8, 205848-205862.	2.6	14
54	Blockchain-Enabled Telehealth Services Using Smart Contracts. IEEE Access, 2021, 9, 151944-151959.	2.6	14

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55	Blockchain-Based Management of Blood Donation. IEEE Access, 2021, 9, 163016-163032.	2.6	12
56	Prioritizing Indicators for Sustainability Assessment in Manufacturing Process: An Integrated Approach. Sustainability, 2022, 14, 3264.	1.6	12
57	Blockchain-Based Management for Organ Donation and Transplantation. IEEE Access, 2022, 10, 59013-59025.	2.6	11
58	Using lean techniques and discrete-event simulation for performance improvement in an outpatient clinic. International Journal of Lean Six Sigma, 2021, 12, 1260-1288.	2.4	10
59	A decision support tool for healthcare providers to evaluate readiness and impacts of adopting supply chain data standards. IIE Transactions on Healthcare Systems Engineering, 2013, 3, 110-126.	0.8	9
60	A polynomial goal programming model with application to energy consumption and emissions in United Arab Emirates. , 2015, , .		9
61	Blockchain-Based Energy Trading in Electric Vehicles Using an Auctioning and Reputation Scheme. IEEE Access, 2021, 9, 165542-165556.	2.6	9
62	A Novel GS1 Data Standard Adoption Roadmap for Healthcare Providers. International Journal of Healthcare Information Systems and Informatics, 2011, 6, 42-59.	1.0	8
63	A Goal Programming model with satisfaction function for long-run sustainability in the United Arab Emirates. , 2015, , .		8
64	Blockchain-Based Solution for the Administration of Controlled Medication. IEEE Access, 2021, 9, 145397-145414.	2.6	8
65	Managing Product Recalls in Healthcare Supply Chain. , 2018, , .		7
66	The Physical Internet and Maritime Ports: Ready for the Future?. IEEE Engineering Management Review, 2021, 49, 136-149.	1.0	7
67	An Exploratory Pilot Study on Supply Chain Data Standards in a Hospital Pharmacy. EMJ - Engineering Management Journal, 2015, 27, 141-151.	1.4	6
68	A goal programming model to study the impact of R&D expenditures on sustainability-related criteria: the case of Kazakhstan. Management Decision, 2020, 58, 2497-2512.	2.2	5
69	Trustworthy Blockchain Gateways for Resource-Constrained Clients and IoT Devices. IEEE Access, 2021, 9, 132875-132887.	2.6	4
70	Evaluation of System Modelling Techniques for Waste Identification in Lean Healthcare Applications. Risk Management and Healthcare Policy, 2020, Volume 13, 3235-3243.	1.2	4
71	Lean and its impact on sustainability performance in service companies: results from aÂpilot study. TQM Journal, 2023, 35, 698-718.	2.1	4
72	A Blockchain-Based Solution for Mitigating Overproduction and Underconsumption of Medical Supplies. IEEE Access, 2022, 10, 71669-71682.	2.6	4

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73	On prorated servicing costs for two-dimensional warranties with combined repair-replacement strategies. International Journal of Product Development, 2010, 12, 274.	0.2	3
74	Integrating supply chain data standards in healthcare operations and Electronic Health Records. , 2015, , .		3
75	Goal Programming Models for Managerial Strategic Decision Making. Studies in Systems, Decision and Control, 2020, , 487-507.	0.8	3
76	A critical review of implementing lean and simulation to improve resource utilization and patient experience in outpatient clinics. TQM Journal, 2023, 35, 734-758.	2.1	3
77	The application of operational excellence methodologies in logistics: a systematic review and directions for future research. Total Quality Management and Business Excellence, 2023, 34, 538-557.	2.4	3
78	Risk Identification Practice in Patient Safety Context. , 2018, , .		2
79	Towards an accessible dispatch system for major events. , 2018, , .		1
80	Blockchain for COVID-19: Review, Opportunities, and a Trusted Tracking System. , 2020, 45, 9895.		1
81	Going beyond healthcare IT inter-operability in chronic disease management. , 2016, , .		0
82	A Novel GS1 Data Standard Adoption Roadmap for Healthcare Providers. , 2013, , 41-57.		0
83	A Classifier System for Determining the Functions of Un-Annotated Proteins Based on Their Semantic Similarities with Gene Ontology Annotation Terms. Advanced Science, Engineering and Medicine, 2014, 6, 879-883.	0.3	0