Raja Jayaraman

List of Publications by Citations

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	Blockchain-Based Soybean Traceability in Agricultural Supply Chain. *IEEE Access*, **2019**, 7, 73295-73305	3.5	214
73	Smart contract-based approach for efficient shipment management. *Computers and Industrial Engineering*, **2019**, 136, 149-159	6.4	86
72	Multi-criteria model for sustainable development using goal programming applied to the United Arab Emirates. *Energy Policy*, **2015**, 87, 447-454	7.2	74
71	Blockchain for COVID-19: Review, Opportunities, and a Trusted Tracking System. *Arabian Journal for Science and Engineering*, **2020**, 45, 1-17	2.5	64
70	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	3.2	52
69	A Blockchain-Based Approach for the Creation of Digital Twins. *IEEE Access*, **2020**, 8, 34113-34126	3.5	47
68	A Weighted Goal Programming model for planning sustainable development applied to Gulf Cooperation Council Countries. *Applied Energy*, **2017**, 185, 1931-1939	10.7	44
67	The role of blockchain technology in telehealth and telemedicine. *International Journal of Medical Informatics*, **2021**, 148, 104399	5.3	43
66	Blockchain for healthcare data management: opportunities, challenges, and future recommendations. *Neural Computing and Applications*,1	4.8	42
65	Blockchain-Based Solution for COVID-19 Digital Medical Passports and Immunity Certificates. *IEEE Access*, **2020**, 8, 222093-222108	3.5	38
64	A Blockchain-Based Approach for Drug Traceability in Healthcare Supply Chain. *IEEE Access*, **2021**, 9, 9728-9743	3.5	36
63	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	1.1	34
62	Blockchain-Based Forward Supply Chain and Waste Management for COVID-19 Medical Equipment and Supplies. *IEEE Access*, **2021**, 9, 44905-44927	3.5	34
61	Blockchain applications and architectures for port operations and logistics management. *Research in Transportation Business and Management*, **2021**, 41, 100620	2.8	34
60	Support vector-based algorithms with weighted dynamic time warping kernel function for time series classification. *Knowledge-Based Systems*, **2015**, 75, 184-191	7.3	33
59	Automating Procurement Contracts in the Healthcare Supply Chain Using Blockchain Smart Contracts. *IEEE Access*, **2021**, 9, 37397-37409	3.5	31
58	On multiserver feedback retrial queues with balking and control retrial rate. *Annals of Operations Research*, **2006**, 141, 211-232	3.2	30

57	. *IEEE Access*, **2020**, 8, 193102-193115	3.5	27
56	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	3.2	26
55	Ensuring protocol compliance and data transparency in clinical trials using Blockchain smart contracts. *BMC Medical Research Methodology*, **2020**, 20, 224	4.7	24
54	Optimal price and pro rata decisions for combined warranty policies with different repair options. *IIE Transactions*, **2008**, 40, 984-991		23
53	Planning sustainable development through a scenario-based stochastic goal programming model. *Operational Research*, **2017**, 17, 789-805	1.6	21
52	Applications of Blockchain Technology in Clinical Trials: Review and Open Challenges. *Arabian Journal for Science and Engineering*, **2021**, 46, 3001-3015	2.5	21
51	Blockchain-Based Solution for the Traceability of Spare Parts in Manufacturing. *IEEE Access*, **2020**, 8, 100308-100322	3.5	20
50	. *IEEE Access*, **2020**, 8, 182704-182719	3.5	20
49	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	2.3	19
48	Surface functionalized highly porous date seed derived activated carbon and MoS nanocomposites for hydrogenation of CO into formic acid. *Journal of Hazardous Materials*, **2021**, 409, 124980	12.8	18
47	Environmental sustainability and multifaceted development: multi-criteria decision models with applications. *Annals of Operations Research*, **2020**, 293, 405-432	3.2	17
46	Optimal control with multiple human papillomavirus vaccines. *Journal of Theoretical Biology*, **2016**, 393, 179-93	2.3	16
45	. *IEEE Access*, **2020**, 8, 188363-188377	3.5	16
44	appXchain: Application-Level Interoperability for Blockchain Networks. *IEEE Access*, **2021**, 9, 87777-87791	3.5	13
43	Blockchain for aerospace and defense: Opportunities and open research challenges. *Computers and Industrial Engineering*, **2021**, 151, 106982	6.4	12
42	Blockchain-Based Multi-Party Authorization for Accessing IPFS Encrypted Data. *IEEE Access*, **2020**, 8, 196813-196825	3.5	12
41	Blockchain for drug traceability: Architectures and open challenges. *Health Informatics Journal*, **2021**, 27, 14604582211011228	3	11
40	Blockchain-Based Solution for Distribution and Delivery of COVID-19 Vaccines. *IEEE Access*, **2021**, 9, 71372-71387	3.5	11

39	Blockchain-based Supply Chain Traceability for COVID-19 personal protective equipment.. *Computers and Industrial Engineering*, **2022**, 167, 107995	6.4	10
38	Blockchain Architectures for Physical Internet: A Vision, Features, Requirements, and Applications. *IEEE Network*, **2021**, 35, 174-181	11.4	9
37	Implementing decentralized auctions using blockchain smart contracts. *Technological Forecasting and Social Change*, **2021**, 168, 120786	9.5	9
36	COVID-19 Contact Tracing Using Blockchain. *IEEE Access*, **2021**, 9, 62956-62971	3.5	9
35	A polynomial goal programming model with application to energy consumption and emissions in United Arab Emirates **2015**,		8
34	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		8
33	Scalable blockchains A systematic review. *Future Generation Computer Systems*, **2022**, 126, 136-162	7.5	8
32	Blockchain for Waste Management in Smart Cities: A Survey. *IEEE Access*, **2021**, 9, 131520-131541	3.5	8
31	A Goal Programming model with satisfaction function for long-run sustainability in the United Arab Emirates **2015**,		7
30	A Novel GS1 Data Standard Adoption Roadmap for Healthcare Providers. *International Journal of Healthcare Information Systems and Informatics*, **2011**, 6, 42-59	1.1	7
29	. *IEEE Access*, **2020**, 8, 225777-225791	3.5	6
28	Blockchain-Based Verifiable Tracking of Resellable Returned Drugs. *IEEE Access*, **2020**, 8, 205848-205862	3.5	6
27	Prioritizing Indicators for Sustainability Assessment in Manufacturing Process: An Integrated Approach. *Sustainability*, **2022**, 14, 3264	3.6	5
26	An Exploratory Pilot Study on Supply Chain Data Standards in a Hospital Pharmacy. *EMJ - Engineering Management Journal*, **2015**, 27, 141-151	1.9	4
25	Supply Chain Inventory Sharing Using Ethereum Blockchain and Smart Contracts. *IEEE Access*, **2022**, 10, 2345-2356	3.5	4
24	Blockchain-Based Solution for Product Recall Management in the Automotive Supply Chain. *IEEE Access*, **2021**, 9, 167756-167775	3.5	4
23	Design and Implementation of CryptoCargo: A Blockchain-Powered Smart Shipping Container for Vaccine Distribution. *IEEE Access*, **2021**, 9, 53786-53803	3.5	4
22	On prorated servicing costs for two-dimensional warranties with combined repair-replacement strategies. *International Journal of Product Development*, **2010**, 12, 274	0.7	3

21	The Physical Internet and Maritime Ports: Ready for the Future. *IEEE Engineering Management Review*, **2021**, 1-1	3.6	3
20	Managing Product Recalls in Healthcare Supply Chain **2018**,		3
19	Trustworthy IoT Data Streaming using Blockchain and IPFS. *IEEE Access*, **2022**, 1-1	3.5	2
18	Blockchain-Based Energy Trading in Electric Vehicles Using an Auctioning and Reputation Scheme. *IEEE Access*, **2021**, 9, 165542-165556	3.5	2
17	. *IEEE Access*, **2021**, 9, 151944-151959	3.5	2
16	Blockchain for Electric Vehicles Energy Trading: Requirements, Opportunities, and Challenges. *IEEE Access*, **2021**, 9, 156947-156961	3.5	2
15	Blockchain-Based Decentralized Digital Manufacturing and Supply for COVID-19 Medical Devices and Supplies. *IEEE Access*, **2021**, 9, 137923-137940	3.5	2
14	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	4.4	2
13	Trustworthy Blockchain Gateways for Resource-Constrained Clients and IoT Devices. *IEEE Access*, **2021**, 1-1	3.5	2
12	Blockchain in oil and gas industry: Applications, challenges, and future trends. *Technology in Society*, **2022**, 68, 101941	6.3	2
11	Integrating supply chain data standards in healthcare operations and Electronic Health Records **2015**,		1
10	Blockchain-Based Solution for the Administration of Controlled Medication. *IEEE Access*, **2021**, 9, 145397-145411	3.5	1
9	Blockchain for COVID-19: Review, Opportunities, and a Trusted Tracking System **2020**, 45, 9895		1
8	The Role of Blockchain Technology in Aviation Industry. *IEEE Aerospace and Electronic Systems Magazine*, **2021**, 36, 4-15	2.4	1
7	Goal Programming Models for Managerial Strategic Decision Making. *Studies in Systems, Decision and Control*, **2020**, 487-507	0.8	1
6	Evaluation of System Modelling Techniques for Waste Identification in Lean Healthcare Applications. *Risk Management and Healthcare Policy*, **2020**, 13, 3235-3243	2.8	1
5	Blockchain for deep learning: review and open challenges.. *Cluster Computing*, **2022**, 1-25	2.1	1
4	Blockchain-based Management for Organ Donation and Transplantation. *IEEE Access*, **2022**, 1-1	3.5	1

3	. *IEEE Access*, **2021**, 9, 163016-163032	3.5	0
2	A Novel GS1 Data Standard Adoption Roadmap for Healthcare Providers **2013**, 41-57		
1	The application of operational excellence methodologies in logistics: a systematic review and directions for future research. *Total Quality Management and Business Excellence*,1-20	2.7	