

Sankar Kumar Roy

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9325522/publications.pdf>

Version: 2024-02-01

105
papers

2,840
citations

159585

30
h-index

233421

45
g-index

107
all docs

107
docs citations

107
times ranked

710
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of inventory control model with shortage under time-dependent demand and time-varying holding cost including stochastic deterioration. <i>Annals of Operations Research</i> , 2018, 260, 437-460.	4.1	96
2	Multi-choice stochastic transportation problem involving extreme value distribution. <i>Applied Mathematical Modelling</i> , 2013, 37, 2230-2240.	4.2	91
3	Multi-objective two-stage grey transportation problem using utility function with goals. <i>Central European Journal of Operations Research</i> , 2017, 25, 417-439.	1.8	78
4	Conic scalarization approach to solve multi-choice multi-objective transportation problem with interval goal. <i>Annals of Operations Research</i> , 2017, 253, 599-620.	4.1	74
5	Application of Type-2 Fuzzy Logic to a Multiobjective Green Solid Transportationâ€™Location Problem With Dwell Time Under Carbon Tax, Cap, and Offset Policy: Fuzzy Versus Nonfuzzy Techniques. <i>IEEE Transactions on Fuzzy Systems</i> , 2020, 28, 2711-2725.	9.8	73
6	Multi-objective sustainable opened- and closed-loop supply chain under mixed uncertainty during COVID-19 pandemic situation. <i>Computers and Industrial Engineering</i> , 2021, 159, 107453.	6.3	73
7	Effect of variable carbon emission in a multi-objective transportation-p-facility location problem under neutrosophic environment. <i>Computers and Industrial Engineering</i> , 2019, 132, 311-324.	6.3	72
8	A green inventory model with the effect of carbon taxation. <i>Annals of Operations Research</i> , 2022, 309, 233-248.	4.1	69
9	Multi-objective fully intuitionistic fuzzy fixed-charge solid transportation problem. <i>Complex & Intelligent Systems</i> , 2021, 7, 1009-1023.	6.5	65
10	Multi-objective fixed-charge solid transportation problem with product blending under intuitionistic fuzzy environment. <i>Applied Intelligence</i> , 2019, 49, 3524-3538.	5.3	62
11	Intuitionistic fuzzy multi-stage multi-objective fixed-charge solid transportation problem in a green supply chain. <i>International Journal of Machine Learning and Cybernetics</i> , 2021, 12, 699-717.	3.6	60
12	Analysis of triangular intuitionistic fuzzy matrix games using robust ranking. <i>Journal of Intelligent and Fuzzy Systems</i> , 2017, 33, 327-336.	1.4	59
13	Intelligent Water Management: a Triangular Type-2 Intuitionistic Fuzzy Matrix Games Approach. <i>Water Resources Management</i> , 2018, 32, 949-968.	3.9	59
14	Multi-objective Transportation Problem with Cost Reliability Under Uncertain Environment. <i>International Journal of Computational Intelligence Systems</i> , 2016, 9, 839.	2.7	57
15	New approach for solving intuitionistic fuzzy multi-objective transportation problem. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2018, 43, 1.	1.3	57
16	Designing an efficient blood supply chain network in crisis: neural learning, optimization and case study. <i>Annals of Operations Research</i> , 2020, 289, 123-152.	4.1	56
17	Multi-objective multi-item fixed-charge solid transportation problem under twofold uncertainty. <i>Neural Computing and Applications</i> , 2019, 31, 8593-8613.	5.6	55
18	Hesitant interval-valued intuitionistic fuzzy-linguistic term set approach in Prisonersâ€™ dilemma game theory using TOPSIS: a case study on Human-trafficking. <i>Central European Journal of Operations Research</i> , 2020, 28, 797-816.	1.8	51

#	ARTICLE	IF	CITATIONS
19	Deteriorating inventory with preservation technology under price- and stock-sensitive demand. <i>Journal of Industrial and Management Optimization</i> , 2020, 16, 1585-1612.	1.3	48
20	Application of Choquet integral in interval type-2 Pythagorean fuzzy sustainable supply chain management under risk. <i>International Journal of Intelligent Systems</i> , 2022, 37, 217-263.	5.7	47
21	Multi-objective solid transportation-location problem with variable carbon emission in inventory management: a hybrid approach. <i>Annals of Operations Research</i> , 2023, 324, 283-309.	4.1	45
22	Solving a multi-objective transportation problem with nonlinear cost and multi-choice demand. <i>International Journal of Management Science and Engineering Management</i> , 2016, 11, 62-70.	3.1	43
23	Dual hesitant fuzzy matrix games: based on new similarity measure. <i>Soft Computing</i> , 2019, 23, 8873-8886.	3.6	43
24	Heuristic approaches for solid transportation-p-facility location problem. <i>Central European Journal of Operations Research</i> , 2020, 28, 939-961.	1.8	43
25	Solving multi-choice multi-objective transportation problem: a utility function approach. <i>Journal of Uncertainty Analysis and Applications</i> , 2014, 2, .	0.9	41
26	Multi-choice stochastic transportation problem involving Weibull distribution. <i>International Journal of Operational Research</i> , 2014, 21, 38.	0.2	40
27	Back-ordered inventory model with inflation in a cloudy-fuzzy environment. <i>Journal of Industrial and Management Optimization</i> , 2021, 17, 1913.	1.3	40
28	Multi-Objective Fixed-Charge Transportation Problem with Random Rough Variables. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2018, 26, 971-996.	1.9	37
29	Carbon mechanism on sustainable multi-objective solid transportation problem for waste management in Pythagorean hesitant fuzzy environment. <i>Complex & Intelligent Systems</i> , 2022, 8, 4115-4143.	6.5	37
30	Minimizing cost and time through single objective function in multi-choice interval valued transportation problem. <i>Journal of Intelligent and Fuzzy Systems</i> , 2017, 32, 1697-1709.	1.4	36
31	An integrated vendor-buyer model with quadratic demand under inspection policy and preservation technology. , 2020, 49, 1168-1189.	1.0	33
32	A two-warehouse probabilistic model with price discount on backorders under two levels of trade-credit policy. <i>Journal of Industrial and Management Optimization</i> , 2020, 16, 553-578.	1.3	33
33	Time Variant Multi-Objective Interval-Valued Transportation Problem in Sustainable Development. <i>Sustainability</i> , 2019, 11, 6161.	3.2	32
34	Fuzzy-rough multi-objective product blending fixed-charge transportation problem with truck load constraints through transfer station. <i>RAIRO - Operations Research</i> , 2021, 55, S2923-S2952.	1.8	32
35	Neutrosophic multi-objective green four-dimensional fixed-charge transportation problem. <i>International Journal of Machine Learning and Cybernetics</i> , 2022, 13, 3089-3112.	3.6	32
36	A two-echelon inventory model with stock-dependent demand and variable holding cost for deteriorating items. <i>Numerical Algebra, Control and Optimization</i> , 2017, 7, 21-50.	1.6	31

#	ARTICLE	IF	CITATIONS
37	Solution of Matrix Games with Generalised Trapezoidal Fuzzy Payoffs. Fuzzy Information and Engineering, 2018, 10, 213-224.	1.7	30
38	Multi-item deteriorating two-echelon inventory model with price- and stock-dependent demand: A trade-credit policy. Journal of Industrial and Management Optimization, 2017, 13, 1-29.	1.3	29
39	A new approach for solving dual-hesitant fuzzy transportation problem with restrictions. Sadhana - Academy Proceedings in Engineering Sciences, 2019, 44, 1.	1.3	28
40	Multi-Product Multi Echelon Measurements of Perishable Supply Chain: Fuzzy Non-Linear Programming Approach. Mathematics, 2021, 9, 2093.	2.2	28
41	Effect of price-sensitive demand and default risk on optimal credit period and cycle time for a deteriorating inventory model. RAIRO - Operations Research, 2021, 55, S2575-S2592.	1.8	28
42	Solving matrix game with rough payoffs using genetic algorithm. Operational Research, 2016, 16, 117-130.	2.0	27
43	Analyzing multimodal transportation problem and its application to artificial intelligence. Neural Computing and Applications, 2020, 32, 2243-2256.	5.6	27
44	Intuitionistic interval-valued hesitant fuzzy matrix games with a new aggregation operator for solving management problem. Granular Computing, 2021, 6, 359-375.	8.0	26
45	Multi-objective linguistic-neutrosophic matrix game and its applications to tourism management. Journal of Dynamics and Games, 2021, 8, 101.	1.0	26
46	Solving multi-objective transportation problem with interval goal using utility function approach. International Journal of Operational Research, 2016, 27, 513.	0.2	25
47	Analysis of Prey-Predator Three Species Fishery Model with Harvesting Including Prey Refuge and Migration. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650022.	1.7	25
48	Location-allocation problem for resource distribution under uncertainty in disaster relief operations. Socio-Economic Planning Sciences, 2022, 82, 101232.	5.0	25
49	Analysis of interval programming in different environments and its application to fixed-charge transportation problem. Discrete Mathematics, Algorithms and Applications, 2017, 09, 1750040.	0.6	24
50	An exact and a heuristic approach for the transportation-p-facility location problem. Computational Management Science, 2020, 17, 389-407.	1.3	24
51	$$(\alpha, \eta, \gamma)$$ -cut set based ranking approach to solving bi-matrix games in neutrosophic environment. Soft Computing, 2021, 25, 2729-2739.	3.6	24
52	An integrated inventory model with variable holding cost under two levels of trade-credit policy. Numerical Algebra, Control and Optimization, 2018, 8, 169-191.	1.6	23
53	Solving Single-Sink, Fixed-Charge, Multi-Objective, Multi-Index Stochastic Transportation Problem. American Journal of Mathematical and Management Sciences, 2014, 33, 300-314.	0.9	22
54	Holling's-Tanner model with Beddington's-DeAngelis functional response and time delay introducing harvesting. Mathematics and Computers in Simulation, 2017, 142, 1-14.	4.4	22

#	ARTICLE	IF	CITATIONS
55	Analysis of prey-predator three species models with vertebral and invertebral predators. International Journal of Dynamics and Control, 2015, 3, 306-312.	2.5	21
56	Transportation Problem with Multi-choice Cost and Demand and Stochastic Supply. Journal of the Operations Research Society of China, 2016, 4, 193-204.	1.4	20
57	Rough set approach to bi-matrix game. International Journal of Operational Research, 2015, 23, 229.	0.2	19
58	Lagrange's Interpolating Polynomial Approach to Solve Multi-choice Transportation Problem. International Journal of Applied and Computational Mathematics, 2015, 1, 639-649.	1.6	18
59	Multi-objective fixed-charge transportation problem using rough programming. International Journal of Operational Research, 2020, 37, 377.	0.2	18
60	Birough programming approach for solving bi-matrix games with birough payoff elements. Journal of Intelligent and Fuzzy Systems, 2015, 29, 863-875.	1.4	17
61	Holling-Tanner prey-predator model with Beddington-DeAngelis functional response including delay. International Journal of Modelling and Simulation, 2020, , 1-15.	3.3	17
62	Reduction methods of type-2 fuzzy variables and their applications to Stackelberg game. Applied Intelligence, 2020, 50, 1398-1415.	5.3	17
63	Fuzzy multiple objective fractional optimization in rough approximation and its aptness to the fixed-charge transportation problem. RAIRO - Operations Research, 2021, 55, 1715-1741.	1.8	17
64	Intuitionistic fuzzy sustainable multi-objective multi-item multi-choice step fixed-charge solid transportation problem. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 6975-6999.	4.9	17
65	The Multi-objective Solid Transportation Problem with Preservation Technology Using Pythagorean Fuzzy Sets. International Journal of Fuzzy Systems, 2022, 24, 2687-2704.	4.0	17
66	FUZZY BASED GA FOR ENTROPY BIMATRIX GOAL GAME. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2010, 18, 779-799.	1.9	16
67	Approximation of Rough Soft Set and Its Application to Lattice. Fuzzy Information and Engineering, 2015, 7, 379-387.	1.7	16
68	Linguistic Pythagorean hesitant fuzzy matrix game and its application in multi-criteria decision making. Applied Intelligence, 2023, 53, 1-22.	5.3	15
69	An inventory model with declining demand market for deteriorating items under a trade credit policy. International Journal of Management Science and Engineering Management, 2016, 11, 243-251.	3.1	14
70	Imperfection with inspection policy and variable demand under trade-credit: A deteriorating inventory model. Numerical Algebra, Control and Optimization, 2020, 10, 45-74.	1.6	14
71	Solving Solid Transportation Problem with Multi-Choice Cost and Stochastic Supply and Demand. International Journal of Strategic Decision Sciences, 2014, 5, 1-26.	0.0	14
72	Effects on prey's predator with different functional responses. International Journal of Biomathematics, 2017, 10, 1750113.	2.9	12

#	ARTICLE	IF	CITATIONS
73	The multi-objective multi-item just-in-time transportation problem. <i>Optimization</i> , 2022, 71, 4665-4696.	1.7	12
74	Solving fuzzy transportation problem using multi-choice goal programming. <i>Discrete Mathematics, Algorithms and Applications</i> , 2017, 09, 1750076.	0.6	11
75	Solving Bi-Level Multi-Objective Transportation Problem under Fuzziness. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2021, 29, 411-433.	1.9	11
76	Behavioural analysis of two prey-two predator model. <i>Ecological Complexity</i> , 2021, 47, 100942.	2.9	11
77	Fuzzy based GA to multi-objective entropy bimatrix game. <i>Opsearch</i> , 2013, 50, 125-140.	1.8	10
78	Multi-choice stochastic bi-level programming problem in cooperative nature via fuzzy programming approach. <i>Journal of Industrial Engineering International</i> , 2016, 12, 287-298.	1.8	10
79	Bi-level Programming for Stackelberg Game with Intuitionistic Fuzzy Number: a Ranking Approach. <i>Journal of the Operations Research Society of China</i> , 2021, 9, 131-149.	1.4	9
80	Soft Matrix Game: A Hesitant Fuzzy MCDM Approach. <i>American Journal of Mathematical and Management Sciences</i> , 2021, 40, 107-119.	0.9	8
81	The multi-objective linear production planning games in triangular hesitant fuzzy sets. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2021, 46, 1.	1.3	8
82	Bi-matrix game in bifuzzy environment. <i>Journal of Uncertainty Analysis and Applications</i> , 2013, 1, .	0.9	7
83	Multiobjective Transportation Problem Using Fuzzy Decision Variable Through Multi-Choice Programming. <i>International Journal of Operations Research and Information Systems</i> , 2017, 8, 82-96.	1.0	7
84	Fuzzy rough soft set and its application to lattice. <i>Granular Computing</i> , 2020, 5, 217-223.	8.0	6
85	Time variant multi-objective linear fractional interval-valued transportation problem. <i>Applied Mathematics</i> , 2022, 37, 111-130.	1.0	6
86	Optimum Intervention in Transportation Networks Using Multimodal System under Fuzzy Stochastic Environment. <i>Journal of Advanced Transportation</i> , 2022, 2022, 1-14.	1.7	6
87	Two-person game with hesitant fuzzy payoff: An application in MADM. <i>RAIRO - Operations Research</i> , 2021, 55, 3087-3105.	1.8	5
88	Soft Congruence Relation Over Lattice. <i>Hacettepe Journal of Mathematics and Statistics</i> , 2017, 3, .	0.3	5
89	Dynamics of stage-structured prey-predator model with prey refuge and harvesting. <i>International Journal of Modelling and Simulation</i> , 0, , 1-19.	3.3	5
90	Stochastic bi level programming with multi-choice for Stackelberg game via fuzzy programming. <i>International Journal of Operational Research</i> , 2017, 29, 508.	0.2	4

#	ARTICLE	IF	CITATIONS
91	Analysing interval and multi-choice bi-level programming for Stackelberg game using intuitionistic fuzzy programming. International Journal of Mathematics in Operational Research, 2020, 16, 354.	0.2	4
92	The Impact of Carbon Tax Policy in a Multi-Objective Green Solid Logistics Modelling Under Sustainable Development. , 2022, , 49-66.		4
93	Prey-predator model in drainage system with migration and harvesting. Nonautonomous Dynamical Systems, 2021, 8, 152-167.	0.7	3
94	Solving multi-objective transportation problem with interval goal using utility function approach. International Journal of Operational Research, 2016, 27, 513.	0.2	3
95	A New Approach for Solving Type-2-Fuzzy Transportation Problem. International Journal of Mathematical, Engineering and Management Sciences, 2019, 4, 683-696.	0.7	3
96	An Approximation Approach for Fixed-Charge Transportation-p-Facility Location Problem. Communications in Computer and Information Science, 2021, , 219-237.	0.5	3
97	Evaluations for medical diagnoses phenomena through 2×2 linguistic neutrosophic environment-based game situation. Soft Computing, 2022, 26, 4883-4893.	3.6	3
98	Solving Solid Transportation Problems with Multi-Choice Cost and Stochastic Supply and Demand. Advances in Business Information Systems and Analytics Book Series, 2015, , 397-428.	0.4	2
99	Multiobjective Transportation Problem Using Fuzzy Decision Variable Through Multi-Choice Programming. , 0, , 866-882.		2
100	Soft rough lattice. Kragujevac Journal of Mathematics, 2015, 39, 13-20.	0.6	2
101	Fostering roles of super predator in a three-species food chain. International Journal of Dynamics and Control, 0, , .	2.5	2
102	Fuzzy matrix game: A fast approach using artificial hybrid neural-net logic-gate switching circuit. Soft Computing, 0, , .	3.6	2
103	Lattice for nested rough approximation. Journal of Discrete Mathematical Sciences and Cryptography, 2017, 20, 1573-1581.	0.8	1
104	Solving Solid Transportation Problems With Multi-Choice Cost and Stochastic Supply and Demand. , 0, , 137-170.		1
105	Solving Two-Stage Multi-objective Transportation Problem Using Goal Programming and Its Application to Sustainable Development. Studies in Computational Intelligence, 2022, , 275-294.	0.9	1