Sankar Kumar Roy

List of Publications by Year
in descending order

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105	2,840	159585	233421
papers	citations	30 h-index	45 g-index

107	107	107	710
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multi-objective solid transportation-location problem with variable carbon emission in inventory management: a hybrid approach. Annals of Operations Research, 2023, 324, 283-309.	4.1	45
2	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
3	Linguistic Pythagorean hesitant fuzzy matrix game and its application in multi-criteria decision making. Applied Intelligence, 2023, 53, 1-22.	5.3	15
4	A green inventory model with the effect of carbon taxation. Annals of Operations Research, 2022, 309, 233-248.	4.1	69
5	The multi-objective multi-item just-in-time transportation problem. Optimization, 2022, 71, 4665-4696.	1.7	12
6	Application of Choquet integral in interval typeâ€2 Pythagorean fuzzy sustainable supply chain management under risk. International Journal of Intelligent Systems, 2022, 37, 217-263.	5.7	47
7	Location-allocation problem for resource distribution under uncertainty in disaster relief operations. Socio-Economic Planning Sciences, 2022, 82, 101232.	5.0	25
8	The Impact of Carbon Tax Policy in a Multi-Objective Green Solid Logistics Modelling Under Sustainable Development. , 2022, , 49-66.		4
9	Evaluations for medical diagnoses phenomena through $$2imes 2$$ linguistic neutrosophic environment-based game situation. Soft Computing, 2022, 26, 4883-4893.	3.6	3
10	Time variant multi-objective linear fractional interval-valued transportation problem. Applied Mathematics, 2022, 37, 111-130.	1.0	6
11	Carbon mechanism on sustainable multi-objective solid transportation problem for waste management in Pythagorean hesitant fuzzy environment. Complex & Intelligent Systems, 2022, 8, 4115-4143.	6.5	37
12	Solving Two-Stage Multi-objective Transportation Problem Using Goal Programming andÂIts Application toÂSustainable Development. Studies in Computational Intelligence, 2022, , 275-294.	0.9	1
13	Neutrosophic multi-objective green four-dimensional fixed-charge transportation problem. International Journal of Machine Learning and Cybernetics, 2022, 13, 3089-3112.	3.6	32
14	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
15	Optimum Intervention in Transportation Networks Using Multimodal System under Fuzzy Stochastic Environment. Journal of Advanced Transportation, 2022, 2022, 1-14.	1.7	6
16	Bi-level Programming for Stackelberg Game with Intuitionistic Fuzzy Number: a Ranking Approach. Journal of the Operations Research Society of China, 2021, 9, 131-149.	1.4	9
17	$$(alpha , eta , gamma)$$-cut set based ranking approach to solving bi-matrix games in neutrosophic environment. Soft Computing, 2021, 25, 2729-2739.	3.6	24
18	Intuitionistic fuzzy multi-stage multi-objective fixed-charge solid transportation problem in a green supply chain. International Journal of Machine Learning and Cybernetics, 2021, 12, 699-717.	3.6	60

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19	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
20	Multi-objective fully intuitionistic fuzzy fixed-charge solid transportation problem. Complex & Intelligent Systems, 2021, 7, 1009-1023.	6.5	65
21	Back-ordered inventory model with inflation in a cloudy-fuzzy environment. Journal of Industrial and Management Optimization, 2021, 17, 1913.	1.3	40
22	Prey-predator model in drainage system with migration and harvesting. Nonautonomous Dynamical Systems, 2021, 8, 152-167.	0.7	3
23	Soft Matrix Game: A Hesitant Fuzzy MCDM Approach. American Journal of Mathematical and Management Sciences, 2021, 40, 107-119.	0.9	8
24	Solving Bi-Level Multi-Objective Transportation Problem under Fuzziness. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2021, 29, 411-433.	1.9	11
25	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
26	The multi-objective linear production planning games in triangular hesitant fuzzy sets. Sadhana - Academy Proceedings in Engineering Sciences, 2021, 46, 1.	1.3	8
27	Multi-Product Multi Echelon Measurements of Perishable Supply Chain: Fuzzy Non-Linear Programming Approach. Mathematics, 2021, 9, 2093.	2.2	28
28	Behavioural analysis of two prey-two predator model. Ecological Complexity, 2021, 47, 100942.	2.9	11
29	Two-person game with hesitant fuzzy payoff: An application in MADM. RAIRO - Operations Research, 2021, 55, 3087-3105.	1.8	5
30	Multi-objective sustainable opened- and closed-loop supply chain under mixed uncertainty during COVID-19 pandemic situation. Computers and Industrial Engineering, 2021, 159, 107453.	6.3	73
31	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
32	Multi-objective linguistic-neutrosophic matrix game and its applications to tourism management. Journal of Dynamics and Games, 2021, 8, 101.	1.0	26
33	Fuzzy-rough multi-objective product blending fixed-charge transportation problem with truck load constraints through transfer station. RAIRO - Operations Research, 2021, 55, S2923-S2952.	1.8	32
34	An Approximation Approach for Fixed-Charge Transportation-p-Facility Location Problem. Communications in Computer and Information Science, 2021, , 219-237.	0.5	3
35	Fuzzy rough soft set and its application to lattice. Granular Computing, 2020, 5, 217-223.	8.0	6
36	Heuristic approaches for solid transportation-p-facility location problem. Central European Journal of Operations Research, 2020, 28, 939-961.	1.8	43

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37	Analyzing multimodal transportation problem and its application to artificial intelligence. Neural Computing and Applications, 2020, 32, 2243-2256.	5.6	27
38	Hesitant interval-valued intuitionistic fuzzy-linguistic term set approach in Prisonersâ€™ dilemma game theory using TOPSIS: a case study on Human-trafficking. Central European Journal of Operations Research, 2020, 28, 797-816.	1.8	51
39	Designing an efficient blood supply chain network in crisis: neural learning, optimization and case study. Annals of Operations Research, 2020, 289, 123-152.	4.1	56
40	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
41	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. IEEE Transactions on Fuzzy Systems, 2020, 28, 2711-2725.	9.8	73
42	Holling-Tanner prey-predator model with Beddington-DeAngelis functional response including delay. International Journal of Modelling and Simulation, 2020, , 1-15.	3.3	17
43	An exact and a heuristic approach for the transportation-p-facility location problem. Computational Management Science, 2020, 17, 389-407.	1.3	24
44	Reduction methods of type-2 fuzzy variables and their applications to Stackelberg game. Applied Intelligence, 2020, 50, 1398-1415.	5.3	17
45	Multi-objective fixed-charge transportation problem using rough programming. International Journal of Operational Research, 2020, 37, 377.	0.2	18
46	An integrated vendor-buyer model with quadratic demand under inspection policy and preservation technology. , 2020, 49, 1168-1189.	1.0	33
47	A two-warehouse probabilistic model with price discount on backorders under two levels of trade-credit policy. Journal of Industrial and Management Optimization, 2020, 16, 553-578.	1.3	33
48	Deteriorating inventory with preservation technology under price- and stock-sensitive demand. Journal of Industrial and Management Optimization, 2020, 16, 1585-1612.	1.3	48
49	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
50	Multi-objective multi-item fixed-charge solid transportation problem under twofold uncertainty. Neural Computing and Applications, 2019, 31, 8593-8613.	5.6	55
51	Effect of variable carbon emission in a multi-objective transportation-p-facility location problem under neutrosophic environment. Computers and Industrial Engineering, 2019, 132, 311-324.	6.3	72
52	Multi-objective fixed-charge solid transportation problem with product blending under intuitionistic fuzzy environment. Applied Intelligence, 2019, 49, 3524-3538.	5.3	62
53	A new approach for solving dual-hesitant fuzzy transportation problem with restrictions. Sadhana - Academy Proceedings in Engineering Sciences, 2019, 44, 1.	1.3	28
54	Time Variant Multi-Objective Interval-Valued Transportation Problem in Sustainable Development. Sustainability, 2019, 11, 6161.	3.2	32

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55	Dual hesitant fuzzy matrix games: based on new similarity measure. Soft Computing, 2019, 23, 8873-8886.	3.6	43
56	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
57	New approach for solving intuitionistic fuzzy multi-objective transportation problem. Sadhana - Academy Proceedings in Engineering Sciences, 2018, 43, 1.	1.3	57
58	Intelligent Water Management: a Triangular Type-2 Intuitionistic Fuzzy Matrix Games Approach. Water Resources Management, 2018, 32, 949-968.	3.9	59
59	Analysis of inventory control model with shortage under time-dependent demand and time-varying holding cost including stochastic deterioration. Annals of Operations Research, 2018, 260, 437-460.	4.1	96
60	Multi-Objective Fixed-Charge Transportation Problem with Random Rough Variables. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2018, 26, 971-996.	1.9	37
61	Solution of Matrix Games with Generalised Trapezoidal Fuzzy Payoffs. Fuzzy Information and Engineering, 2018, 10, 213-224.	1.7	30
62	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
63	Minimizing cost and time through single objective function in multi-choice interval valued transportation problem. Journal of Intelligent and Fuzzy Systems, 2017, 32, 1697-1709.	1.4	36
64	Hollingâ€“Tanner model with Beddingtonâ€“DeAngelis functional response and time delay introducing harvesting. Mathematics and Computers in Simulation, 2017, 142, 1-14.	4.4	22
65	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
66	Multi-objective two-stage grey transportation problem using utility function with goals. Central European Journal of Operations Research, 2017, 25, 417-439.	1.8	78
67	Effects on preyâ€“predator with different functional responses. International Journal of Biomathematics, 2017, 10, 1750113.	2.9	12
68	Analysis of triangular intuitionistic fuzzy matrix games using robust ranking. Journal of Intelligent and Fuzzy Systems, 2017, 33, 327-336.	1.4	59
69	Solving fuzzy transportation problem using multi-choice goal programming. Discrete Mathematics, Algorithms and Applications, 2017, 09, 1750076.	0.6	11
70	Conic scalarization approach to solve multi-choice multi-objective transportation problem with interval goal. Annals of Operations Research, 2017, 253, 599-620.	4.1	74
71	Lattice for nested rough approximation. Journal of Discrete Mathematical Sciences and Cryptography, 2017, 20, 1573-1581.	0.8	1
72	Multiobjective Transportation Problem Using Fuzzy Decision Variable Through Multi-Choice Programming. International Journal of Operations Research and Information Systems, 2017, 8, 82-96.	1.0	7

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73	Stochastic bi level programming with multi-choice for Stackelberg game via fuzzy programming. International Journal of Operational Research, 2017, 29, 508.	0.2	4
74	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
75	A two-echelon inventory model with stock-dependent demand and variable holding cost for deteriorating items. Numerical Algebra, Control and Optimization, 2017, 7, 21-50.	1.6	31
76	Soft Congruence Relation Over Lattice. Hacettepe Journal of Mathematics and Statistics, 2017, 3, .	0.3	5
77	Solving multi-objective transportation problem with interval goal using utility function approach. International Journal of Operational Research, 2016, 27, 513.	0.2	25
78	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
79	Multi-objective Transportation Problem with Cost Reliability Under Uncertain Environment. International Journal of Computational Intelligence Systems, 2016, 9, 839.	2.7	57
80	Multi-choice stochastic bi-level programming problem in cooperative nature via fuzzy programming approach. Journal of Industrial Engineering International, 2016, 12, 287-298.	1.8	10
81	Solving a multi-objective transportation problem with nonlinear cost and multi-choice demand. International Journal of Management Science and Engineering Management, 2016, 11, 62-70.	3.1	43
82	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
83	Solving matrix game with rough payoffs using genetic algorithm. Operational Research, 2016, 16, 117-130.	2.0	27
84	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
85	Solving multi-objective transportation problem with interval goal using utility function approach. International Journal of Operational Research, 2016, 27, 513.	0.2	3
86	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
87	Rough set approach to bi-matrix game. International Journal of Operational Research, 2015, 23, 229.	0.2	19
88	Lagrangeâ€™s Interpolating Polynomial Approach to Solve Multi-choice Transportation Problem. International Journal of Applied and Computational Mathematics, 2015, 1, 639-649.	1.6	18
89	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
90	Approximation of Rough Soft Set and Its Application to Lattice. Fuzzy Information and Engineering, 2015, 7, 379-387.	1.7	16

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91	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
92	Soft rough lattice. Kragujevac Journal of Mathematics, 2015, 39, 13-20.	0.6	2
93	Solving multi-choice multi-objective transportation problem: a utility function approach. Journal of Uncertainty Analysis and Applications, 2014, 2, .	0.9	41
94	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
95	Multi-choice stochastic transportation problem involving Weibull distribution. International Journal of Operational Research, 2014, 21, 38.	0.2	40
96	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
97	Fuzzy based GA to multi-objective entropy bimatrix game. Opsearch, 2013, 50, 125-140.	1.8	10
98	Bi-matrix game in bifuzzy environment. Journal of Uncertainty Analysis and Applications, 2013, 1, .	0.9	7
99	Multi-choice stochastic transportation problem involving extreme value distribution. Applied Mathematical Modelling, 2013, 37, 2230-2240.	4.2	91
100	FUZZY BASED GA FOR ENTROPY BIMATRIX GOAL GAME. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2010, 18, 779-799.	1.9	16
101	Solving Solid Transportation Problems With Multi-Choice Cost and Stochastic Supply and Demand. , 0, , 137-170.		1
102	Multiobjective Transportation Problem Using Fuzzy Decision Variable Through Multi-Choice Programming. , 0, , 866-882.		2
103	Dynamics of stage-structured preyâ€“predator model with prey refuge and harvesting. International Journal of Modelling and Simulation, 0, , 1-19.	3.3	5
104	Fostering roles of super predator in a three-species food chain. International Journal of Dynamics and Control, 0, , .	2.5	2
105	Fuzzy matrix game: A fast approach using artificial hybrid neural-net logic-gate switching circuit. Soft Computing, 0, , .	3.6	2