

# Sankar Kumar Roy

## List of Publications by Year in descending order

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Version: 2024-02-01

105  
papers

2,840  
citations

159358

30  
h-index

233125

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.   | 2.6 | 96        |
| 2  | Multi-choice stochastic transportation problem involving extreme value distribution. <i>Applied Mathematical Modelling</i> , 2013, 37, 2230-2240.  | 2.2 | 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.   | 1.1 | 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.   | 2.6 | 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. | 6.5 | 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.  | 3.4 | 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.   | 3.4 | 72        |
| 8  | A green inventory model with the effect of carbon taxation. <i>Annals of Operations Research</i> , 2022, 309, 233-248.   | 2.6 | 69        |
| 9  | Multi-objective fully intuitionistic fuzzy fixed-charge solid transportation problem. <i>Complex &amp; Intelligent Systems</i> , 2021, 7, 1009-1023.   | 4.0 | 65        |
| 10 | Multi-objective fixed-charge solid transportation problem with product blending under intuitionistic fuzzy environment. <i>Applied Intelligence</i> , 2019, 49, 3524-3538.   | 3.3 | 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.  | 2.3 | 60        |
| 12 | Analysis of triangular intuitionistic fuzzy matrix games using robust ranking. <i>Journal of Intelligent and Fuzzy Systems</i> , 2017, 33, 327-336.  | 0.8 | 59        |
| 13 | Intelligent Water Management: a Triangular Type-2 Intuitionistic Fuzzy Matrix Games Approach. <i>Water Resources Management</i> , 2018, 32, 949-968.   | 1.9 | 59        |
| 14 | Multi-objective Transportation Problem with Cost Reliability Under Uncertain Environment. <i>International Journal of Computational Intelligence Systems</i> , 2016, 9, 839.   | 1.6 | 57        |
| 15 | New approach for solving intuitionistic fuzzy multi-objective transportation problem. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2018, 43, 1.  | 0.8 | 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.  | 2.6 | 56        |
| 17 | Multi-objective multi-item fixed-charge solid transportation problem under twofold uncertainty. <i>Neural Computing and Applications</i> , 2019, 31, 8593-8613.  | 3.2 | 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.                      | 1.1 | 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.                               | 0.8 | 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.               | 3.3 | 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.                  | 2.6 | 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.              | 2.6 | 43        |
| 23 | Dual hesitant fuzzy matrix games: based on new similarity measure. <i>Soft Computing</i> , 2019, 23, 8873-8886.   | 2.1 | 43        |
| 24 | Heuristic approaches for solid transportation-p-facility location problem. <i>Central European Journal of Operations Research</i> , 2020, 28, 939-961.  | 1.1 | 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.   | 0.1 | 40        |
| 27 | Back-ordered inventory model with inflation in a cloudy-fuzzy environment. <i>Journal of Industrial and Management Optimization</i> , 2021, 17, 1913.   | 0.8 | 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.                    | 0.9 | 37        |
| 29 | Carbon mechanism on sustainable multi-objective solid transportation problem for waste management in Pythagorean hesitant fuzzy environment. <i>Complex &amp; Intelligent Systems</i> , 2022, 8, 4115-4143. | 4.0 | 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.                   | 0.8 | 36        |
| 31 | An integrated vendor-buyer model with quadratic demand under inspection policy and preservation technology. , 2020, 49, 1168-1189.  | 0.3 | 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.                | 0.8 | 33        |
| 33 | Time Variant Multi-Objective Interval-Valued Transportation Problem in Sustainable Development. <i>Sustainability</i> , 2019, 11, 6161.   | 1.6 | 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.          | 1.0 | 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.                            | 2.3 | 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.                           | 1.0 | 31        |

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|----|---|-----|-----------|
| 37 | Solution of Matrix Games with Generalised Trapezoidal Fuzzy Payoffs. <i>Fuzzy Information and Engineering</i> , 2018, 10, 213-224.  | 1.0 | 30        |
| 38 | Multi-item deteriorating two-echelon inventory model with price- and stock-dependent demand: A trade-credit policy. <i>Journal of Industrial and Management Optimization</i> , 2017, 13, 1-29.                            | 0.8 | 29        |
| 39 | A new approach for solving dual-hesitant fuzzy transportation problem with restrictions. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2019, 44, 1.  | 0.8 | 28        |
| 40 | Multi-Product Multi Echelon Measurements of Perishable Supply Chain: Fuzzy Non-Linear Programming Approach. <i>Mathematics</i> , 2021, 9, 2093.   | 1.1 | 28        |
| 41 | Effect of price-sensitive demand and default risk on optimal credit period and cycle time for a deteriorating inventory model. <i>RAIRO - Operations Research</i> , 2021, 55, S2575-S2592.                                | 1.0 | 28        |
| 42 | Solving matrix game with rough payoffs using genetic algorithm. <i>Operational Research</i> , 2016, 16, 117-130.  | 1.3 | 27        |
| 43 | Analyzing multimodal transportation problem and its application to artificial intelligence. <i>Neural Computing and Applications</i> , 2020, 32, 2243-2256.   | 3.2 | 27        |
| 44 | Intuitionistic interval-valued hesitant fuzzy matrix games with a new aggregation operator for solving management problem. <i>Granular Computing</i> , 2021, 6, 359-375.  | 4.4 | 26        |
| 45 | Multi-objective linguistic-neutrosophic matrix game and its applications to tourism management. <i>Journal of Dynamics and Games</i> , 2021, 8, 101.  | 0.6 | 26        |
| 46 | Solving multi-objective transportation problem with interval goal using utility function approach. <i>International Journal of Operational Research</i> , 2016, 27, 513.  | 0.1 | 25        |
| 47 | Analysis of Prey-Predator Three Species Fishery Model with Harvesting Including Prey Refuge and Migration. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016, 26, 1650022. | 0.7 | 25        |
| 48 | Location-allocation problem for resource distribution under uncertainty in disaster relief operations. <i>Socio-Economic Planning Sciences</i> , 2022, 82, 101232.  | 2.5 | 25        |
| 49 | Analysis of interval programming in different environments and its application to fixed-charge transportation problem. <i>Discrete Mathematics, Algorithms and Applications</i> , 2017, 09, 1750040.                      | 0.4 | 24        |
| 50 | An exact and a heuristic approach for the transportation-p-facility location problem. <i>Computational Management Science</i> , 2020, 17, 389-407.  | 0.8 | 24        |
| 51 | $$(\alpha, \eta, \gamma)$$ -cut set based ranking approach to solving bi-matrix games in neutrosophic environment. <i>Soft Computing</i> , 2021, 25, 2729-2739.   | 2.1 | 24        |
| 52 | An integrated inventory model with variable holding cost under two levels of trade-credit policy. <i>Numerical Algebra, Control and Optimization</i> , 2018, 8, 169-191.  | 1.0 | 23        |
| 53 | Solving Single-Sink, Fixed-Charge, Multi-Objective, Multi-Index Stochastic Transportation Problem. <i>American Journal of Mathematical and Management Sciences</i> , 2014, 33, 300-314.                                   | 0.6 | 22        |
| 54 | Holling's-Tanner model with Beddington's-DeAngelis functional response and time delay introducing harvesting. <i>Mathematics and Computers in Simulation</i> , 2017, 142, 1-14.   | 2.4 | 22        |

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|----|--|-----|-----------|
| 55 | Analysis of prey-predator three species models with vertebral and invertebral predators. International Journal of Dynamics and Control, 2015, 3, 306-312.  | 1.5 | 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.   | 0.9 | 20        |
| 57 | Rough set approach to bi-matrix game. International Journal of Operational Research, 2015, 23, 229.  | 0.1 | 19        |
| 58 | Lagrange's Interpolating Polynomial Approach to Solve Multi-choice Transportation Problem. International Journal of Applied and Computational Mathematics, 2015, 1, 639-649.                           | 0.9 | 18        |
| 59 | Multi-objective fixed-charge transportation problem using rough programming. International Journal of Operational Research, 2020, 37, 377.   | 0.1 | 18        |
| 60 | Birough programming approach for solving bi-matrix games with birough payoff elements. Journal of Intelligent and Fuzzy Systems, 2015, 29, 863-875.  | 0.8 | 17        |
| 61 | Holling-Tanner prey-predator model with Beddington-DeAngelis functional response including delay. International Journal of Modelling and Simulation, 2020, , 1-15.                                     | 2.3 | 17        |
| 62 | Reduction methods of type-2 fuzzy variables and their applications to Stackelberg game. Applied Intelligence, 2020, 50, 1398-1415.   | 3.3 | 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.                  | 1.0 | 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. | 3.3 | 17        |
| 65 | The Multi-objective Solid Transportation Problem with Preservation Technology Using Pythagorean Fuzzy Sets. International Journal of Fuzzy Systems, 2022, 24, 2687-2704.                               | 2.3 | 17        |
| 66 | FUZZY BASED GA FOR ENTROPY BIMATRIX GOAL GAME. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2010, 18, 779-799.   | 0.9 | 16        |
| 67 | Approximation of Rough Soft Set and Its Application to Lattice. Fuzzy Information and Engineering, 2015, 7, 379-387.   | 1.0 | 16        |
| 68 | Linguistic Pythagorean hesitant fuzzy matrix game and its application in multi-criteria decision making. Applied Intelligence, 2023, 53, 1-22.   | 3.3 | 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.        | 2.6 | 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.                             | 1.0 | 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.  | 1.5 | 12        |

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|----|---|-----|-----------|
| 73 | The multi-objective multi-item just-in-time transportation problem. <i>Optimization</i> , 2022, 71, 4665-4696.  | 1.0 | 12        |
| 74 | Solving fuzzy transportation problem using multi-choice goal programming. <i>Discrete Mathematics, Algorithms and Applications</i> , 2017, 09, 1750076.   | 0.4 | 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.                    | 0.9 | 11        |
| 76 | Behavioural analysis of two prey-two predator model. <i>Ecological Complexity</i> , 2021, 47, 100942.   | 1.4 | 11        |
| 77 | Fuzzy based GA to multi-objective entropy bimatrix game. <i>Opsearch</i> , 2013, 50, 125-140.   | 1.1 | 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.                      | 0.9 | 9         |
| 80 | Soft Matrix Game: A Hesitant Fuzzy MCDM Approach. <i>American Journal of Mathematical and Management Sciences</i> , 2021, 40, 107-119.  | 0.6 | 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.                                 | 0.8 | 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.  | 4.4 | 6         |
| 85 | Time variant multi-objective linear fractional interval-valued transportation problem. <i>Applied Mathematics</i> , 2022, 37, 111-130.  | 0.6 | 6         |
| 86 | Optimum Intervention in Transportation Networks Using Multimodal System under Fuzzy Stochastic Environment. <i>Journal of Advanced Transportation</i> , 2022, 2022, 1-14.                           | 0.9 | 6         |
| 87 | Two-person game with hesitant fuzzy payoff: An application in MADM. <i>RAIRO - Operations Research</i> , 2021, 55, 3087-3105.   | 1.0 | 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.   | 2.3 | 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.                                 | 0.1 | 4         |

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|-----|--|-----|-----------|
| 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. | 0.1 | 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.   | 0.3 | 3         |
| 94  | Solving multi-objective transportation problem with interval goal using utility function approach. International Journal of Operational Research, 2016, 27, 513.                                   | 0.1 | 3         |
| 95  | A New Approach for Solving Type-2-Fuzzy Transportation Problem. International Journal of Mathematical, Engineering and Management Sciences, 2019, 4, 683-696.                                      | 0.4 | 3         |
| 96  | An Approximation Approach for Fixed-Charge Transportation-p-Facility Location Problem. Communications in Computer and Information Science, 2021, , 219-237.  | 0.4 | 3         |
| 97  | Evaluations for medical diagnoses phenomena through $2 \times 2$ linguistic neutrosophic environment-based game situation. Soft Computing, 2022, 26, 4883-4893.                                    | 2.1 | 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.                | 0.3 | 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.  | 0.3 | 2         |
| 101 | Fostering roles of super predator in a three-species food chain. International Journal of Dynamics and Control, 0, , .   | 1.5 | 2         |
| 102 | Fuzzy matrix game: A fast approach using artificial hybrid neural-net logic-gate switching circuit. Soft Computing, 0, , .   | 2.1 | 2         |
| 103 | Lattice for nested rough approximation. Journal of Discrete Mathematical Sciences and Cryptography, 2017, 20, 1573-1581.   | 0.5 | 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.            | 0.7 | 1         |