# Teodor Gabriel Crainic

List of Publications by Year
in descending order

| 184 papers | 12,347 citations | 28242<br>55 h-index | 30058<br>103 g-index |
| --- | --- | --- | --- |
| 191 all docs | 191 docs citations | 191 times ranked | 5500 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | A Hybrid Genetic Algorithm for Multidepot and Periodic Vehicle Routing Problems. Operations Research, 2012, 60, 611-624. | 1.2 | 476 |
| 2 | Service network design in freight transportation. European Journal of Operational Research, 2000, 122, 272-288. | 3.5 | 473 |
| 3 | The Benders decomposition algorithm: A literature review. European Journal of Operational Research, 2017, 259, 801-817. | 3.5 | 448 |
| 4 | Models for Evaluating and Planning City Logistics Systems. Transportation Science, 2009, 43, 432-454. | 2.6 | 441 |
| 5 | A hybrid genetic algorithm with adaptive diversity management for a large class of vehicle routing problems with time-windows. Computers and Operations Research, 2013, 40, 475-489. | 2.4 | 391 |
| 6 | Planning models for freight transportation. European Journal of Operational Research, 1997, 97, 409-438. | 3.5 | 387 |
| 7 | An adaptive large neighborhood search heuristic for Two-Echelon Vehicle Routing Problems arising in city logistics. Computers and Operations Research, 2012, 39, 3215-3228. | 2.4 | 365 |
| 8 | Heuristics for multi-attribute vehicle routing problems: A survey and synthesis. European Journal of Operational Research, 2013, 231, 1-21. | 3.5 | 333 |
| 9 | Advanced freight transportation systems for congested urban areas. Transportation Research Part C: Emerging Technologies, 2004, 12, 119-137. | 3.9 | 322 |
| 10 | A unified solution framework for multi-attribute vehicle routing problems. European Journal of Operational Research, 2014, 234, 658-673. | 3.5 | 302 |
| 11 | Dynamic and Stochastic Models for the Allocation of Empty Containers. Operations Research, 1993, 41, 102-126. | 1.2 | 299 |
| 12 | Parallel Branch-and-Branch Algorithms: Survey and Synthesis. Operations Research, 1994, 42, 1042-1066. | 1.2 | 284 |
| 13 | Survey Paperâ€"A Review of Empty Flows and Fleet Management Models in Freight Transportation. Transportation Science, 1987, 21, 227-248. | 2.6 | 232 |
| 14 | Chapter 8 Intermodal Transportation. Handbooks in Operations Research and Management Science, 2007, , 467-537. | 0.6 | 204 |
| 15 | Intelligent freight-transportation systems: Assessment and the contribution of operations research. Transportation Research Part C: Emerging Technologies, 2009, 17, 541-557. | 3.9 | 193 |
| 16 | Bundle-based relaxation methods for multicommodity capacitated fixed charge network design. Discrete Applied Mathematics, 2001, 112, 73-99. | 0.5 | 190 |
| 17 | Multicommodity, multimode freight transportation: A general modeling and algorithmic framework for the service network design problem. Transportation Research Part B: Methodological, 1986, 20, 225-242. | 2.8 | 169 |
| 18 | A cooperative parallel meta-heuristic for the vehicle routing problem with time windows. Computers and Operations Research, 2005, 32, 1685-1708. | 2.4 | 164 |

| # | Article | IF | Citations |
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| 19 | A Multimode Multiproduct Network Assignment Model for Strategic Planning of Freight Flows. Transportation Science, 1990, 24, 25-39. | 2.6 | 156 |
| 20 | A Study of Demand Stochasticity in Service Network Design. Transportation Science, 2009, 43, 144-157. | 2.6 | 147 |
| 21 | Cycle-Based Neighbourhoods for Fixed-Charge Capacitated Multicommodity Network Design. Operations Research, 2003, 51, 655-667. | 1.2 | 146 |
| 22 | A Simplex-Based Tabu Search Method for Capacitated Network Design. INFORMS Journal on Computing, 2000, 12, 223-236. | 1.0 | 142 |
| 23 | Physical Internet Enabled Hyperconnected City Logistics. Transportation Research Procedia, 2016, 12, 383-398. | 0.8 | 137 |
| 24 | Lower and upper bounds for the two-echelon capacitated location-routing problem. Computers and Operations Research, 2012, 39, 3185-3199. | 2.4 | 129 |
| 25 | Simulation of intermodal freight transportation systems: a taxonomy. European Journal of Operational Research, 2018, 270, 401-418. | 3.5 | 126 |
| 26 | Service network design with management and coordination of multiple fleets. European Journal of Operational Research, 2009, 193, 377-389. | 3.5 | 125 |
| 27 | Cooperative Parallel Variable Neighborhood Search for the p-Median. Journal of Heuristics, 2004, 10, 293-314. | 1.1 | 124 |
| 28 | Two-Echelon Vehicle Routing Problem: A satellite location analysis. Procedia, Social and Behavioral Sciences, 2010, 2, 5944-5955. | 0.5 | 124 |
| 29 | TS2PACK: A two-level tabu search for the three-dimensional bin packing problem. European Journal of Operational Research, 2009, 195, 744-760. | 3.5 | 111 |
| 30 | Models and Tabu Search Metaheuristics for Service Network Design with Asset-Balance Requirements. Transportation Science, 2009, 43, 158-177. | 2.6 | 108 |
| 31 | A tabu search procedure for multicommodity location/allocation with balancing requirements. Annals of Operations Research, 1993, 41, 359-383. | 2.6 | 107 |
| 32 | Scheduled Service Network Design for Freight Rail Transportation. Operations Research, 2014, 62, 383-400. | 1.2 | 103 |
| 33 | Long-Haul Freight Transportation. , 2003, , 451-516. | | 98 |
| 34 | Progressive hedgingâ€based metaheuristics for stochastic network design. Networks, 2011, 58, 114-124. | 1.6 | 98 |
| 35 | Multicommodity Capacitated Network Design. , 1999, , 1-19. | | 94 |
| 36 | Path Relinking, Cycle-Based Neighbourhoods and Capacitated Multicommodity Network Design. Annals of Operations Research, 2004, 131, 109-133. | 2.6 | 93 |

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| 37 | Service network design with asset management: Formulations and comparative analyses. Transportation Research Part C: Emerging Technologies, 2009, 17, 197-207. | 3.9 | 93 |
| 38 | A Model for the Strategic Planning of National Freight Transportation by Rail. Transportation Science, 1990, 24, 1-24. | 2.6 | 89 |
| 39 | Towards a taxonomy of City Logistics projects. Procedia, Social and Behavioral Sciences, 2010, 2, 6217-6228. | 0.5 | 88 |
| 40 | A tabu search for Time-dependent Multi-zone Multi-trip Vehicle Routing Problem with Time Windows. European Journal of Operational Research, 2013, 231, 43-56. | 3.5 | 87 |
| 41 | Cooperative Parallel Tabu Search for Capacitated Network Design. Journal of Heuristics, 2002, 8, 601-627. | 1.1 | 85 |
| 42 | A survey on planning semi-flexible transit systems: Methodological issues and a unifying framework. Transportation Research Part C: Emerging Technologies, 2013, 36, 324-338. | 3.9 | 83 |
| 43 | The effect of multi-scenario policies on empty container repositioning. Transportation Research, Part E: Logistics and Transportation Review, 2009, 45, 758-770. | 3.7 | 79 |
| 44 | Service Network Design with Resource Constraints. Transportation Science, 2016, 50, 1380-1393. | 2.6 | 77 |
| 45 | Modeling dry-port-based freight distribution planning. Transportation Research Part C: Emerging Technologies, 2015, 55, 518-534. | 3.9 | 76 |
| 46 | Branch and Price for Service Network Design with Asset Management Constraints. Transportation Science, 2011, 45, 33-49. | 2.6 | 69 |
| 47 | Scenario grouping in a progressive hedging-based meta-heuristic for stochastic network design. Computers and Operations Research, 2014, 43, 90-99. | 2.4 | 69 |
| 48 | Economies of Scale in Empty Freight Car Distribution in Scheduled Railways. Transportation Science, 2004, 38, 121-134. | 2.6 | 68 |
| 49 | Efficient lower bounds and heuristics for the variable cost and size bin packing problem. Computers and Operations Research, 2011, 38, 1474-1482. | 2.4 | 65 |
| 50 | A Slope Scaling/Lagrangean Perturbation Heuristic with Long-Term Memory for Multicommodity Capacitated Fixed-Charge Network Design. Journal of Heuristics, 2004, 10, 525-545. | 1.1 | 64 |
| 51 | Multi-start Heuristics for the Two-Echelon Vehicle Routing Problem. Lecture Notes in Computer Science, 2011, , 179-190. | 1.0 | 64 |
| 52 | Models for multimode multicommodity location problems with interdepot balancing requirements. Annals of Operations Research, 1989, 18, 277-302. | 2.6 | 62 |
| 53 | Synchronous tabu search parallelization strategies for multicommodity location-allocation with balancing requirements. OR Spectrum, 1995, 17, 113-123. | 2.1 | 61 |
| 54 | A Metaheuristic for a Two Echelon Location-Routing Problem. Lecture Notes in Computer Science, 2010, , 288-301. | 1.0 | 60 |

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| 55 | Branch-and-Price–Based Algorithms for the Two-Echelon Vehicle Routing Problem with Time Windows. Transportation Science, 2019, 53, 463-479. | 2.6 | 60 |
| 56 | OR tools for tactical freight transportation planning. European Journal of Operational Research, 1988, 33, 290-297. | 3.5 | 59 |
| 57 | A parallel multi-neighborhood cooperative tabu search for capacitated vehicle routing problems. European Journal of Operational Research, 2012, 222, 441-451. | 3.5 | 59 |
| 58 | Multi-objective optimization of a two-echelon vehicle routing problem with vehicle synchronization and 'grey zone' customers arising in urban logistics. European Journal of Operational Research, 2021, 289, 940-958. | 3.5 | 58 |
| 59 | Combinatorial auctions. Annals of Operations Research, 2007, 153, 131-164. | 2.6 | 57 |
| 60 | The stochastic bid generation problem in combinatorial transportation auctions. European Journal of Operational Research, 2014, 236, 991-999. | 3.5 | 57 |
| 61 | A first multilevel cooperative algorithm for capacitated multicommodity network design. Computers and Operations Research, 2006, 33, 2602-2622. | 2.4 | 55 |
| 62 | Dual-Ascent Procedures for Multicommodity Location-Allocation Problems with Balancing Requirements. Transportation Science, 1993, 27, 90-101. | 2.6 | 53 |
| 63 | A cooperative parallel metaheuristic for the capacitated vehicle routing problem. Computers and Operations Research, 2014, 44, 33-41. | 2.4 | 53 |
| 64 | A branch-and-price approach for a multi-period vehicle routing problem. Computers and Operations Research, 2015, 55, 167-184. | 2.4 | 52 |
| 65 | An adaptive large-neighborhood search heuristic for a multi-period vehicle routing problem. Transportation Research, Part E: Logistics and Transportation Review, 2016, 95, 95-123. | 3.7 | 52 |
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| 67 | An heuristic search for the routing of heterogeneous trucks with single and double container loads. Transportation Research, Part E: Logistics and Transportation Review, 2013, 56, 108-118. | 3.7 | 51 |
| 68 | Implicit depot assignments and rotations in vehicle routing heuristics. European Journal of Operational Research, 2014, 237, 15-28. | 3.5 | 51 |
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| 71 | Logistics capacity planning: A stochastic bin packing formulation and a progressive hedging meta-heuristic. European Journal of Operational Research, 2016, 253, 404-417. | 3.5 | 50 |
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| 73 | A metaheuristic for stochastic service network design. Journal of Heuristics, 2010, 16, 653-679. | 1.1 | 46 |
| 74 | Service network design models for two-tier city logistics. Optimization Letters, 2014, 8, 1375-1387. | 0.9 | 46 |
| 75 | Parallel Branch-and-Bound Algorithms. , 0, , 1-28. | | 44 |
| 76 | City Logistics. , 2008, , 181-212. | | 43 |
| 77 | A path relinking algorithm for a multi-depot periodic vehicle routing problem. Journal of Heuristics, 2013, 19, 497-524. | 1.1 | 43 |
| 78 | The generalized bin packing problem. Transportation Research, Part E: Logistics and Transportation Review, 2012, 48, 1205-1220. | 3.7 | 42 |
| 79 | Accelerating the Benders Decomposition Method: Application to Stochastic Network Design Problems. SIAM Journal on Optimization, 2018, 28, 875-903. | 1.2 | 42 |
| 80 | Time-window relaxations in vehicle routing heuristics. Journal of Heuristics, 2015, 21, 329-358. | 1.1 | 41 |
| 81 | A column generation approach for a multi-attribute vehicle routing problem. European Journal of Operational Research, 2015, 241, 888-906. | 3.5 | 40 |
| 82 | Collaboration partner selection for city logistics planning under municipal freight regulations. Applied Mathematical Modelling, 2016, 40, 510-525. | 2.2 | 40 |
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| 84 | Impact of Generalized Travel Costs on Satellite Location in the Two-Echelon Vehicle Routing Problem. Procedia, Social and Behavioral Sciences, 2012, 39, 195-204. | 0.5 | 37 |
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| 86 | Cutting-Plane Matheuristic for Service Network Design with Design-Balanced Requirements. Transportation Science, 2015, 49, 99-113. | 2.6 | 37 |
| 87 | A branch-and-bound method for multicommodity location with balancing requirements. European Journal of Operational Research, 1993, 65, 368-382. | 3.5 | 36 |
| 88 | Modeling Demand Uncertainty in Two-Tier City Logistics Tactical Planning. Transportation Science, 2016, 50, 559-578. | 2.6 | 35 |
| 89 | Systemic behavior of cooperative search algorithms. Parallel Computing, 2004, 30, 57-79. | 1.3 | 34 |
| 90 | Multi-commodity location-routing: Flow intercepting formulation and branch-and-cut algorithm. Computers and Operations Research, 2018, 89, 94-112. | 2.4 | 34 |

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| 93 | Improving the performance of rail yards through dynamic reassignments of empty cars. Transportation Research Part C: Emerging Technologies, 2009, 17, 259-273. | 3.9 | 32 |
| 94 | Commodity Representations and Cut-Set-Based Inequalities for Multicommodity Capacitated Fixed-Charge Network Design. Transportation Science, 2017, 51, 650-667. | 2.6 | 32 |
| 95 | From Managing Urban Freight to Smart City Logistics Networks. Series on Computers and Operations Research, 2017, , 143-188. | 0.2 | 31 |
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| 98 | Design of Regular Intercity Driver Routes for the LTL Motor Carrier Industry. Transportation Science, 1992, 26, 280-295. | 2.6 | 29 |
| 99 | GRASP with Path Relinking for the Two-Echelon Vehicle Routing Problem. Operations Research/ Computer Science Interfaces Series, 2013, , 113-125. | 0.3 | 29 |
| 100 | Improving Intercity Freight Routing with a Tactical Planning Model. Interfaces, 1992, 22, 31-44. | 1.6 | 28 |
| 101 | Tackling electrosmog in completely configured 3G networks by parallel cooperative meta-heuristics. IEEE Wireless Communications, 2006, 13, 34-41. | 6.6 | 28 |
| 102 | A multilevel tabu search algorithm for the feature selection problem in biomedical data. Computers and Mathematics With Applications, 2008, 55, 1019-1033. | 1.4 | 28 |
| 103 | Branch-and-price and beam search algorithms for the Variable Cost and Size Bin Packing Problem with optional items. Annals of Operations Research, 2014, 222, 125-141. | 2.6 | 27 |
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| 110 | Stochastic Network Design for Planning Scheduled Transportation Services: The Value of Deterministic Solutions. INFORMS Journal on Computing, 2019, 31, 153-170. | 1.0 | 26 |
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| 113 | A Branch-and-Cut-and-Price algorithm for the Multi-trip Separate Pickup and Delivery Problem with Time Windows at Customers and Facilities. European Journal of Operational Research, 2019, 279, 824-839. | 3.5 | 25 |
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| 116 | Integrating c2e and c2c Traffic into City Logistics Planning. Procedia, Social and Behavioral Sciences, 2012, 39, 47-60. | 0.5 | 24 |
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| 118 | The Benders Dual Decomposition Method. Operations Research, 2020, 68, 878-895. | 1.2 | 23 |
| 119 | Partial Benders Decomposition: General Methodology and Application to Stochastic Network Design. Transportation Science, 2021, 55, 414-435. | 2.6 | 23 |
| 120 | Determining origin-destination matrices and optimal multiproduct flows for freight transportation over multimodal networks. Transportation Research Part B: Methodological, 1993, 27, 351-368. | 2.8 | 22 |
| 121 | Meta-Heuristics for a Class of Demand-Responsive Transit Systems. INFORMS Journal on Computing, 2005, 17, 10-24. | 1.0 | 22 |
| 122 | Parallel Solution Methods for Vehicle Routing Problems. Operations Research/ Computer Science Interfaces Series, 2008, , 171-198. | 0.3 | 22 |
| 123 | Single source single-commodity stochastic network design. Computational Management Science, 2012, 9, 139-160. | 0.8 | 22 |
| 124 | A hybrid generational genetic algorithm for the periodic vehicle routing problem with time windows. Journal of Heuristics, 2014, 20, 383-416. | 1.1 | 22 |
| 125 | An integrative cooperative search framework for multi-decision-attribute combinatorial optimization: Application to the MDPVRP. European Journal of Operational Research, 2015, 246, 400-412. | 3.5 | 22 |
| 126 | Global optimization properties of parallel cooperative search algorithms: A simulation study. Parallel Computing, 2000, 26, 91-112. | 1.3 | 21 |

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| 127 | A two-echelon location-routing problem with synchronisation. Journal of the Operational Research Society, 2021, 72, 145-160. | 2.1 | 21 |
| 128 | A new bidding framework for combinatorial e-auctions. Computers and Operations Research, 2004, 31, 1177-1203. | 2.4 | 20 |
| 129 | Organisation of truck-driver training for the transportation of dangerous goods in Europe and North America. Accident Analysis and Prevention, 2003, 35, 191-200. | 3.0 | 19 |
| 130 | Parallel Computation, Co-operation, Tabu Search. , 2005, , 283-302. | | 18 |
| 131 | Scheduled service network design with quality targets and stochastic travel times. European Journal of Operational Research, 2021, 288, 30-46. | 3.5 | 18 |
| 132 | Explicit and Emergent Cooperation Schemes for Search Algorithms. Lecture Notes in Computer Science, 2008, , 95-109. | 1.0 | 18 |
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| 134 | New bin packing fast lower bounds. Computers and Operations Research, 2007, 34, 3439-3457. | 2.4 | 17 |
| 135 | Multi-thread integrative cooperative optimization for rich combinatorial problems. , 2009, , . | | 16 |
| 136 | Performance Indicators for Planning Intermodal Barge Transportation Systems. Transportation Research Procedia, 2014, 3, 621-630. | 0.8 | 16 |
| 137 | Synchronized Multi-trip Multi-traffic Pickup &amp; Delivery in City Logistics. Transportation Research Procedia, 2016, 12, 26-39. | 0.8 | 16 |
| 138 | Parallel Tabu Search. , 2005, , 289-313. | | 14 |
| 139 | Computing the asymptotic worst-case of bin packing lower bounds. European Journal of Operational Research, 2007, 183, 1295-1303. | 3.5 | 14 |
| 140 | Bin Packing Problems with Uncertainty on Item Characteristics: An Application to Capacity Planning in Logistics. Procedia, Social and Behavioral Sciences, 2014, 111, 654-662. | 0.5 | 14 |
| 141 | Scheduled service network design with revenue management considerations and an intermodal barge transportation illustration. European Journal of Operational Research, 2022, 300, 164-177. | 3.5 | 14 |
| 142 | Planning and Optimization Methods for Advanced Urban Logistics Systems at Tactical Level. Ecoproduction, 2014, , 145-164. | 0.8 | 14 |
| 143 | Single-commodity network design with random edge capacities. European Journal of Operational Research, 2012, 220, 394-403. | 3.5 | 13 |
| 144 | Long-Haul Freight Transportation. Profiles in Operations Research, 1999, , 433-491. | 0.3 | 13 |

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| 146 | Service Design Models for Rail Intermodel Transportation. Lecture Notes in Economics and Mathematical Systems, 2009, , 53-67. | 0.3 | 12 |
| 147 | An efficient metaheuristic for multi-dimensional multi-container packing. , 2011, , . | | 12 |
| 148 | An Experimental Study of Systemic Behavior of Cooperative Search Algorithms. , 1999, , 373-392. | | 12 |
| 149 | A Benders Decomposition Approach for the Symmetric TSP with Generalized Latency Arising in the Design of Semiflexible Transit Systems. Transportation Science, 2017, 51, 706-722. | 2.6 | 11 |
| 150 | Reduced cost-based variable fixing in two-stage stochastic programming. Annals of Operations Research, 0, , 1. | 2.6 | 11 |
| 151 | Integrating Resource Management in Service Network Design for Bike-Sharing Systems. Transportation Science, 2020, 54, 1251-1271. | 2.6 | 11 |
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| 153 | Single-Commodity Network Design with Stochastic Demand and Multiple Sources and Sinks. Infor, 2011, 49, 193-211. | 0.5 | 10 |
| 154 | MPI Parallelization of Variable Neighborhood Search. Electronic Notes in Discrete Mathematics, 2012, 39, 241-248. | 0.4 | 10 |
| 155 | Multi-period bin packing model and effective constructive heuristics for corridor-based logistics capacity planning. Computers and Operations Research, 2021, 132, 105308. | 2.4 | 10 |
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| 158 | Transportation in supply chain management: recent advances and research prospects. International Journal of Production Research, 2016, 54, 403-404. | 4.9 | 8 |
| 159 | A Scatter Search Heuristic for the Fixed-Charge Capacitated Network Design Problem. , 2007, , 25-40. | | 8 |
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| 161 | Special issue on recent advances in metaheuristics. Journal of Heuristics, 2010, 16, 235-237. | 1.1 | 7 |
| 162 | Multi-Zone Multi-Trip Vehicle Routing Problem with Time Windows. Infor, 2015, 53, 49-67. | 0.5 | 7 |

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| 163 | An interactive graphic approach for the integrated design of intercity transportation timetables and vehicle operations. Computers and Operations Research, 1992, 19, 139-149. | 2.4 | 6 |
| 164 | Models for bundle trading in financial markets. European Journal of Operational Research, 2005, 160, 88-105. | 3.5 | 6 |
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| 166 | Towards an Evolutionary Method â€" Cooperating Multi-Thread Parallel Tabu Search Hybrid. , 1999, , 331-344. |  | 6 |
| 167 | Solution integration in combinatorial optimization with applications to cooperative search and rich vehicle routing. Journal of Heuristics, 2015, 21, 663-685. | 1.1 | 5 |
| 168 | The impact of filtering in a branch-and-cut algorithm for multicommodity capacitated fixed charge network design. EURO Journal on Computational Optimization, 2018, 6, 143-184. | 1.5 | 5 |
| 169 | The Impact of Combining Inbound and Outbound Demand in City Logistics Systems. , 2017, , . |  | 4 |
| 170 | Block planning for intermodal rail: Methodology and case study. Transportation Research Procedia, 2020, 47, 19-26. | 0.8 | 4 |
| 171 | A reduced cost-based restriction and refinement matheuristic for stochastic network design problem. Journal of Heuristics, 2021, 27, 325-351. | 1.1 | 4 |
| 172 | Tactical capacity planning in an integrated multi-stakeholder freight transportation system. Omega, 2022, 110, 102628. | 3.6 | 4 |
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| 177 | A Learning-Based Matheuristic for Stochastic Multicommodity Network Design. INFORMS Journal on Computing, 0, , . | 1.0 | 2 |
| 178 | Editorial to the Special Issue on Transportation and Logistics with Autonomous Technologies. International Transactions in Operational Research, 2021, 28, 1619-1625. | 1.8 | 2 |
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