Transit Route Network Design Using Parallel Genetic Algorithm

#	Paper	IF	Citations
97	Efficient Parallel Implementation of Hybrid Optimization Approaches for Solving Groundwater Inverse Problems. *Journal of Computing in Civil Engineering*, **2005**, 19, 329-340	5	21
96	Optimization of transit network layout and headway with a combined genetic algorithm and simulated annealing method. *Engineering Optimization*, **2006**, 38, 701-722	2	33
95	Distributed Hybrid Genetic Algorithms for Structural Optimization on a PC Cluster. *Journal of Structural Engineering*, **2006**, 132, 1890-1897	3	16
94	Bus Transit Route Network Design Using Genetic Algorithm. **2007**, 1135		2
93	Urban Transit Route Network Design Problem using Tabu Search Algorithm. **2007**, 3929		3
92	. **2008**,		4
91	Bus Transit Service Optimization -- The State-of-the-Art, State-of-the-Practice, and Challenges. **2008**,		
90	Multi-Objective Transit Route Network Design Using Tabu Search. **2008**,		
89	A multi-objective metaheuristic approach for the Transit Network Design Problem. *Public Transport*, **2009**, 1, 253-273	2.1	46
88	Capacity Expansion Problem for Large Urban Transportation Networks. *Journal of Transportation Engineering*, **2009**, 135, 406-415		38
87	Transit Route Network Design Problem: Review. *Journal of Transportation Engineering*, **2009**, 135, 491-505		189
86	A simple multi-objective optimization algorithm for the urban transit routing problem. **2009**,		24
85	A genetic algorithm for bi-level linear programming dynamic network design problem. *Transportation Letters*, **2009**, 1, 281-294	2.1	7
84	Optimal All-Stop, Short-Turn, and Express Transit Services under Heterogeneous Demand. *Transportation Research Record*, **2010**, 2197, 8-18	1.7	68
83	A metaheuristic approach to the urban transit routing problem. *Journal of Heuristics*, **2010**, 16, 353-372	1.9	64
82	Mass transit route network design using genetic algorithm. **2010**, 33, 301-315		12
81	Integrated transit services for minimum cost operation considering heterogeneous demand. *Transportation Planning and Technology*, **2010**, 33, 605-624	1.6	7

80	Intelligent Agent Optimization of Urban Bus Transit System Design. *Journal of Computing in Civil Engineering*, **2011**, 25, 357-369	5	33
79	Multi-objective optimization of a road diet network design. *Transportation Research, Part A: Policy and Practice*, **2011**, 45, 499-511	3.7	14
78	The Transit Route Arc-Node Service Maximization problem. *European Journal of Operational Research*, **2011**, 208, 46-56	5.6	28
77	BUS ROUTE DESIGN IN SMALL DEMAND AREAS. *Transport*, **2011**, 26, 248-254	1.4	3
76	Provision of Reinforcement in Concrete Solids Using the Generalized Genetic Algorithm. *Journal of Computing in Civil Engineering*, **2011**, 25, 211-217	5	1
75	Genetic Algorithm for Multiuser Discrete Network Design Problem under Demand Uncertainty. *Mathematical Problems in Engineering*, **2012**, 2012, 1-17	1.1	3
74	Implications of the computational complexity of transit route network redesign for metaheuristic optimisation systems. *IET Intelligent Transport Systems*, **2012**, 6, 124	2.4	8
73	Evaluation of Car-following Models Using Trajectory Data from Real Traffic. *Procedia, Social and Behavioral Sciences*, **2012**, 43, 356-366		13
72	Transit route network design-maximizing direct and transfer demand density. *Transportation Research Part C: Emerging Technologies*, **2012**, 22, 58-75	8.4	97
71	A review of urban transportation network design problems. *European Journal of Operational Research*, **2013**, 229, 281-302	5.6	379
70	New heuristic and evolutionary operators for the multi-objective urban transit routing problem. **2013**,		38
69	A Low-Carbon-Based Bilevel Optimization Model for Public Transit Network. *Mathematical Problems in Engineering*, **2013**, 2013, 1-6	1.1	6
68	Robust Optimization Model of Bus Transit Network Design with Stochastic Travel Time. *Journal of Transportation Engineering*, **2013**, 139, 625-634		77
67	A Public Transit Network Route Generation Algorithm. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2013**, 46, 162-166		4
66	Transit Route Design in the Emerging City Unit around High-Speed Rail Station. *Advanced Materials Research*, **2014**, 1030-1032, 2166-2169	0.5	
65	Activity-Based Travel Scenario Analysis with Routing Problem Reoptimization. *Computer-Aided Civil and Infrastructure Engineering*, **2014**, 29, 91-106	8.4	36
64	Transit Network Design Model Based on Transport Efficiency. *Applied Mechanics and Materials*, **2014**, 505-506, 840-844	0.3	
63	. *IEEE Transactions on Intelligent Transportation Systems*, **2014**, 1-12	6.1	7

62	Design method using hybrid of line-type and circular-type routes for transit network system optimization. *Top*, **2014**, 22, 600-613	1.3	5
61	Optimising large scale public transport network design problems using mixed-mode parallel multi-objective evolutionary algorithms. **2014**,		7
60	A demand based route generation algorithm for public transit network design. *Computers and Operations Research*, **2014**, 51, 21-29	4.6	19
59	Transit Route Design Solved with Wireless Data Collection Algorithms. *Transportation Research Record*, **2014**, 2466, 42-51	1.7	1
58	Waterbus system optimisation for low-carbon transportation. *Proceedings of the Institution of Civil Engineers: Transport*, **2015**, 168, 434-441	0.5	0
57	Optimization of the Waterbus Operation Plan Considering Carbon Emissions: The Case of Zhoushan City. *Sustainability*, **2015**, 7, 10976-10993	3.6	3
56	Rectangular Bus Service Zone without Capacity Constraint. *Journal of Interdisciplinary Mathematics*, **2015**, 18, 649-656	1.2	4
55	An optimization method for planning the lines and the operational strategies of waterbuses: the case of Zhoushan city. *Operational Research*, **2015**, 15, 25-49	1.6	1
54	Simultaneous optimization of transit network and public bicycle station network. *Journal of Central South University*, **2015**, 22, 1574-1584	2.1	11
53	Multi-objective optimization of urban bus network using cumulative prospect theory. *Journal of Systems Science and Complexity*, **2015**, 28, 661-678	1	17
52	Planning, operation, and control of bus transport systems: A literature review. *Transportation Research Part B: Methodological*, **2015**, 77, 38-75	7.2	339
51	Optimal Modification of Urban Bus Network Routes Using a Genetic Algorithm. *Journal of Transportation Engineering*, **2015**, 141, 04014081		11
50	Design of Integrated Limited-Stop and Short-Turn Services for a Bus Route. *Mathematical Problems in Engineering*, **2016**, 2016, 1-9	1.1	10
49	Fixed-route taxi system: route network design and fleet size minimization problems. *Journal of Advanced Transportation*, **2016**, 50, 1252-1271	1.9	5
48	A planning tool for maximising transit services. *Transportmetrica B*, **2016**, 4, 1-22	1.8	3
47	Optimising the design of a limited-stop bus service for a branching network. *Proceedings of the Institution of Civil Engineers: Municipal Engineer*, **2017**, 170, 230-238	0.5	7
46	The optimization of bus rapid transit route based on an improved particle swarm optimization. *Transportation Letters*, **2018**, 10, 257-268	2.1	7
45	Parallel cooperative optimization through hyperheuristics. *Computer Aided Chemical Engineering*, **2018**, 44, 805-810	0.6	4

44	Complete hierarchical multi-objective genetic algorithm for transit network design problem. *Expert Systems With Applications*, **2018**, 114, 143-154	7.8	52
43	Improvement in direct bus services through route planning. *Transport Policy*, **2019**, 81, 263-274	5.7	11
42	Review of Urban Transportation Network Design Problems Based on CiteSpace. *Mathematical Problems in Engineering*, **2019**, 2019, 1-22	1.1	16
41	Metaheuristics for the transit route network design problem: a review and comparative analysis. *Public Transport*, **2019**, 11, 487-521	2.1	33
40	An urban transportation problem solved by parallel programming with hyper-heuristics. *Engineering Optimization*, **2019**, 51, 1965-1979	2	4
39	Mitigation of overcrowding in buses through bus planning. *Public Transport*, **2019**, 11, 159-187	2.1	8
38	Simultaneous Bus Transit Route Network and Frequency Setting Search Algorithm. *Journal of Transportation Engineering Part A: Systems*, **2019**, 145, 04019011	1.5	9
37	A two-stage optimization approach for subscription bus services network design: the China case. *Public Transport*, **2019**, 11, 589-616	2.1	3
36	Operating cost and quality of service optimization for multi-vehicle-type timetabling for urban bus systems. *Journal of Parallel and Distributed Computing*, **2019**, 133, 272-285	4.4	10
35	Analysing the spatial configuration of urban bus networks based on the geospatial network analysis method. *Cities*, **2020**, 96, 102406	5.6	20
34	Parallel computational optimization in operations research: A new integrative framework, literature review and research directions. *European Journal of Operational Research*, **2020**, 287, 1-18	5.6	10
33	Bilevel Decision-Support Model for Bus-Route Optimization and Accessibility Improvement for Seniors. *Journal of Computing in Civil Engineering*, **2020**, 34, 04019057	5	1
32	Multiperspective Bus Route Planning in a Stackelberg Game Framework. *Journal of Advanced Transportation*, **2020**, 2020, 1-16	1.9	
31	A Multi-Objective Optimization and Hybrid Heuristic Approach for Urban Bus Route Network Design. *IEEE Access*, **2020**, 8, 12154-12167	3.5	10
30	An infeasible start heuristic for the transit route network design problem. *Transportmetrica A: Transport Science*, **2020**, 16, 388-408	2.5	3
29	A cuckoo search based approach to design sustainable transit network. *Transportation Letters*, **2020**, 1-14	2.1	4
28	Frequency Optimization Models for Reducing Overcrowding Discomfort. *Transportation Research Record*, **2020**, 2674, 160-171	1.7	1
27	Integrating underground line design with existing public transportation systems to increase transit network connectivity: Case study in Greater Cairo. *Expert Systems With Applications*, **2021**, 167, 114183	7.8	6

26	Zone-based public transport route optimisation in an urban network. *Public Transport*, **2021**, 13, 197-231	2.1	7
25	Design of an Urban Transport Network for the Optimal Location of Bus Stops in a Smart City Based on a Big Data Model and Spider Monkey Optimization Algorithm. *Lecture Notes in Intelligent Transportation and Infrastructure*, **2021**, 167-201	0.3	
24	. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 1-13	6.1	5
23	Service operation design in a transit network with congested common lines. *Transportation Research Part B: Methodological*, **2021**, 144, 81-102	7.2	3
22	Transit route network redesign under Electrification: Model and application. *International Journal of Transportation Science and Technology*, **2021**, 10, 366-366	3.3	1
21	Integrated Optimization for Commuting Customized Bus Stop Planning, Routing Design, and Timetable Development With Passenger Spatial-Temporal Accessibility. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 22, 2060-2075	6.1	8
20	Mixed Scheduling Model for Limited-Stop and Normal Bus Service with Fleet Size Constraint. *Information (Switzerland)*, **2021**, 12, 400	2.6	1
19	Designing bus line plans for realistic cases - the Utrecht case study. *Expert Systems With Applications*, **2022**, 187, 115918	7.8	0
18	An Improved Multi-objective Algorithm for the Urban Transit Routing Problem. *Lecture Notes in Computer Science*, **2014**, 49-60	0.9	10
17	A Model for the Stop Planning and Timetables of Customized Buses. *PLoS ONE*, **2017**, 12, e0168762	3.7	21
16	Optimization of urban bus operation frequency under common route condition with rail transit. *Frontiers of Engineering Management*, **2017**, 4, 451	2.7	5
15	Simulation-Based Scheduling of Waterway Projects Using a Parallel Genetic Algorithm. **2015**, 334-347		2
14	Simulation-Based Scheduling of Waterway Projects Using a Parallel Genetic Algorithm. *International Journal of Operations Research and Information Systems*, **2015**, 6, 49-63	0.8	6
13	Simulation-Based Scheduling of Waterway Projects Using a Parallel Genetic Algorithm. **2016**, 1071-1084		
12	Metaheurística para la solución del Transit Network Design Problem multiobjetivo con demanda multiperiodo. *Ingeniería Y Ciencia*, **2017**, 13, 29-69	0.5	
11	NTRDM: A New Bus Line Network Optimization Method Based on Taxi Passenger Flow Conversion. *Lecture Notes in Computer Science*, **2018**, 341-350	0.9	
10	Parallel Multiple Tabu Search for Multiobjective Urban Transit Scheduling Problem. *Journal of Computer and Communications*, **2020**, 08, 14-54	0.8	
9	Approximate multi-objective optimization for integrated bus route design and service frequency setting. *Transportation Research Part B: Methodological*, **2022**, 155, 1-25	7.2	4

8	Solution Approach for Bus Transit Model with a Rectangular Service Area. *Mathematics*, **2022**, 10, 514	2.3	
7	Frequency Based Transit Assignment Models: Graph Formulation Study. *IEEE Access*, **2022**, 10, 62991-63003		3
6	Public Transportation. **2021**, 539-565		
5	Multiobjective Approach to the Transit Network Design Problem with Variable Demand considering Transit Equity. **2022**, 2022, 1-17		1
4	A Variable Neighbourhood Search-Based Algorithm for the Transit Route Network Design Problem. **2022**, 12, 10232		0
3	Assessing accessibility to service facilities for older people in age-restricted communities from the perspective of equity. **2022**, 27, 101515		1
2	Analysis of route efficiency in city bus transportation vulnerable areas. **2022**,		0
1	Nature-inspired metaheuristic optimization algorithms for urban transit routing problem. **2023**, 5, 015040		0