

Oded Cats

List of Publications by Year in descending order

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151
papers

4,608
citations

101543

36
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133252

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152
all docs

152
docs citations

152
times ranked

2669
citing authors

#	ARTICLE	IF	CITATIONS
1	Joint optimisation of regular and demand-responsive transit services. <i>Transportmetrica A: Transport Science</i> , 2023, 19, .	2.0	13
2	A review of public transport transfer synchronisation at the real-time control phase. <i>Transport Reviews</i> , 2023, 43, 88-107.	8.8	9
3	Evaluating the impact of waiting time reliability on route choice using smart card data. <i>Transportmetrica A: Transport Science</i> , 2023, 19, .	2.0	5
4	Potential of on-demand services for urban travel. <i>Transportation</i> , 2023, 50, 1289-1321.	4.0	9
5	Mitigating bus bunching with real-time crowding information. <i>Transportation</i> , 2023, 50, 1003-1030.	4.0	9
6	Perception of overlap in multi-modal urban transit route choice. <i>Transportmetrica A: Transport Science</i> , 2023, 19, .	2.0	5
7	Timetable Recovery After Disturbances in Metro Operations: An Exact and Efficient Solution. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 4075-4085.	8.0	8
8	Network design for line-based autonomous bus services. <i>Transportation</i> , 2022, 49, 467-502.	4.0	7
9	Optimal frequency setting of metro services in the age of COVID-19 distancing measures. <i>Transportmetrica A: Transport Science</i> , 2022, 18, 807-827.	2.0	26
10	Quantification and control of disruption propagation in multi-level public transport networks. <i>International Journal of Transportation Science and Technology</i> , 2022, 11, 83-106.	3.6	3
11	Headway variability in public transport: a review of metrics, determinants, effects for quality of service and control strategies. <i>Transport Reviews</i> , 2022, 42, 337-361.	8.8	10
12	How to split the costs and charge the travellers sharing a ride? aligning system's optimum with users' equilibrium. <i>European Journal of Operational Research</i> , 2022, 301, 956-973.	5.7	6
13	Beyond the dichotomy: How ride-hailing competes with and complements public transport. <i>PLoS ONE</i> , 2022, 17, e0262496.	2.5	20
14	Evolution of labour supply in ridesourcing. <i>Transportmetrica B</i> , 2022, 10, 599-626.	2.3	3
15	Unravelling individual mobility temporal patterns using longitudinal smart card data. <i>Research in Transportation Business and Management</i> , 2022, 43, 100816.	2.9	8
16	Analysing the impact of COVID-19 risk perceptions on route choice behaviour in train networks. <i>PLoS ONE</i> , 2022, 17, e0264805.	2.5	14
17	Impact of introducing a metro line on urban bus services. <i>Case Studies on Transport Policy</i> , 2022, 10, 940-947.	2.5	7
18	Traveller behaviour in public transport in the early stages of the COVID-19 pandemic in the Netherlands. <i>Transportation Research, Part A: Policy and Practice</i> , 2022, 159, 357-371.	4.2	24

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19	On the scalability of private and pooled on-demand services for urban mobility in Amsterdam. <i>Transportation Planning and Technology</i> , 2022, 45, 2-18.	2.0	6
20	Voting with one's feet: Unraveling urban centers attraction using visiting frequency. <i>Cities</i> , 2022, 127, 103773.	5.6	2
21	Simulating two-sided mobility platforms with MaaSsim. <i>PLoS ONE</i> , 2022, 17, e0269682.	2.5	6
22	What are the determinants of the willingness to share rides in pooled on-demand services?. <i>Transportation</i> , 2021, 48, 1733-1765.	4.0	49
23	Predicting disruptions and their passenger delay impacts for public transport stops. <i>Transportation</i> , 2021, 48, 1703-1731.	4.0	17
24	Relocating shared automated vehicles under parking constraints: assessing the impact of different strategies for on-street parking. <i>Transportation</i> , 2021, 48, 1931-1965.	4.0	25
25	If you are late, everyone is late: late passenger arrival and ride-pooling systems' performance. <i>Transportmetrica A: Transport Science</i> , 2021, 17, 1077-1100.	2.0	7
26	Fleet size determination for a mixed private and pooled on-demand system with elastic demand. <i>Transportmetrica A: Transport Science</i> , 2021, 17, 897-920.	2.0	7
27	Parking space for shared automated vehicles: How less can be more. <i>Transportation Research, Part A: Policy and Practice</i> , 2021, 143, 61-77.	4.2	10
28	Public transport planning adaption under the COVID-19 pandemic crisis: literature review of research needs and directions. <i>Transport Reviews</i> , 2021, 41, 374-392.	8.8	257
29	Modelling the effects of real-time crowding information in urban public transport systems. <i>Transportmetrica A: Transport Science</i> , 2021, 17, 675-713.	2.0	18
30	Examining circuitry of urban transit networks from an equity perspective. <i>Journal of Transport Geography</i> , 2021, 91, 102980.	5.0	5
31	Modelling virus spreading in ride-pooling networks. <i>Scientific Reports</i> , 2021, 11, 7201.	3.3	10
32	A holding control strategy for diverging bus lines. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 126, 103087.	7.6	5
33	Taking the path less travelled: Valuation of denied boarding in crowded public transport systems. <i>Transportation Research, Part A: Policy and Practice</i> , 2021, 147, 1-13.	4.2	10
34	Public transport fare elasticities from smartcard data: Evidence from a natural experiment. <i>Transport Policy</i> , 2021, 105, 35-43.	6.6	31
35	The potential of real-time crowding information in reducing bus bunching under different network saturation levels. , 2021, , .		4
36	Quantifying the cascading effects of passenger delays. <i>Reliability Engineering and System Safety</i> , 2021, 212, 107629.	8.9	8

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37	Multi-modal network evolution in polycentric regions. <i>Journal of Transport Geography</i> , 2021, 96, 103159.	5.0	6
38	Quantifying travellers'™ evaluation of waiting time uncertainty in public transport networks. <i>Travel Behaviour & Society</i> , 2021, 25, 209-222.	5.0	9
39	Evaluating crowding in individual train cars using a dynamic transit assignment model. <i>Transportmetrica B</i> , 2021, 9, 693-711.	2.3	1
40	Simulation of fixed versus on-demand station-based feeder operations. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 132, 103401.	7.6	7
41	A review of public transport transfer coordination at the tactical planning phase. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 133, 103450.	7.6	33
42	Crowding valuation in urban tram and bus transportation based on smart card data. <i>Transportmetrica A: Transport Science</i> , 2020, 16, 23-42.	2.0	78
43	Latent classes of daily mobility patterns: the relationship with attitudes towards modes. <i>Transportation</i> , 2020, 47, 1843-1866.	4.0	30
44	A data driven method for OD matrix estimation. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 113, 38-56.	7.6	47
45	Heuristic Coarsening for Generating Multiscale Transport Networks. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020, 21, 2240-2253.	8.0	4
46	Can passenger flow distribution be estimated solely based on network properties in public transport systems?. <i>Transportation</i> , 2020, 47, 2757-2776.	4.0	18
47	Robust Network-Wide Bus Scheduling With Transfer Synchronizations. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020, 21, 4582-4592.	8.0	25
48	Modelling growth principles of metropolitan public transport networks. <i>Journal of Transport Geography</i> , 2020, 82, 102567.	5.0	17
49	Drivers and barriers in adopting Mobility as a Service (MaaS) – A latent class cluster analysis of attitudes. <i>Transportation Research, Part A: Policy and Practice</i> , 2020, 132, 378-401.	4.2	88
50	Impacts of replacing a fixed public transport line by a demand responsive transport system: Case study of a rural area in Amsterdam. <i>Research in Transportation Economics</i> , 2020, 83, 100910.	4.1	37
51	Transitioning towards the deployment of line-based autonomous buses: Consequences for service frequency and vehicle capacity. <i>Transportation Research, Part A: Policy and Practice</i> , 2020, 138, 491-507.	4.2	12
52	Estimation of metro network passenger delay from individual trajectories. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 117, 102704.	7.6	8
53	A compact and scalable representation of network traffic dynamics using shapes and its applications. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 121, 102850.	7.6	1
54	Fair accessibility – Operationalizing the distributional effects of policy interventions. <i>Journal of Transport Geography</i> , 2020, 89, 102890.	5.0	6

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55	Designing bus rapid transit systems: Lessons on service reliability and operations. Case Studies on Transport Policy, 2020, 8, 946-953.	2.5	16
56	Distribution of passenger costs in fixed versus flexible station-based feeder services. Transportation Research Procedia, 2020, 47, 179-186.	1.5	2
57	Understanding ride-sourcing drivers' behaviour and preferences: Insights from focus groups analysis. Research in Transportation Business and Management, 2020, 37, 100516.	2.9	29
58	Exact matching of attractive shared rides (ExMAS) for system-wide strategic evaluations. Transportation Research Part B: Methodological, 2020, 139, 285-310.	5.9	28
59	Metropolitan rail network robustness. Physica A: Statistical Mechanics and Its Applications, 2020, 549, 124317.	2.6	36
60	A passenger-pedestrian model to assess platform and train usage from automated data. Transportation Research, Part A: Policy and Practice, 2020, 132, 948-968.	4.2	16
61	Learning and Adaptation in Dynamic Transit Assignment Models for Congested Networks. Transportation Research Record, 2020, 2674, 113-124.	1.9	10
62	Determinants of passengers' metro car choice revealed through automated data sources: a Stockholm case study. Transportmetrica A: Transport Science, 2020, 16, 529-549.	2.0	12
63	The experienced mode choice set and its determinants: Commuting trips in the Netherlands. Transportation Research, Part A: Policy and Practice, 2020, 132, 744-758.	4.2	21
64	Is flat fare fair? Equity impact of fare scheme change. Transport Policy, 2020, 91, 48-58.	6.6	9
65	Value of time and reliability for urban pooled on-demand services. Transportation Research Part C: Emerging Technologies, 2020, 115, 102621.	7.6	60
66	COVID-19 and Public Transportation: Current Assessment, Prospects, and Research Needs. Journal of Public Transportation, 2020, 22, .	1.2	490
67	Calibrating Route Choice Sets for an Urban Public Transport Network using Smart Card Data. , 2019, , .		3
68	Integrating network science and public transport accessibility analysis for comparative assessment. Journal of Transport Geography, 2019, 80, 102505.	5.0	18
69	Passenger Travel Time Reliability for Multimodal Public Transport Journeys. Transportation Research Record, 2019, 2673, 149-160.	1.9	24
70	Robust Control for Regulating Frequent Bus Service: Supporting the Implementation of Headway-Based Holding Strategies. Transportation Research Record, 2019, 2673, 654-665.	1.9	2
71	The underlying effect of public transport reliability on users' satisfaction. Transportation Research, Part A: Policy and Practice, 2019, 126, 83-93.	4.2	42
72	Multi-constrained bus holding control in time windows with branch and bound and alternating minimization. Transportmetrica B, 2019, 7, 1258-1285.	2.3	17

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73	Lessons and Evaluation of a Headway Control Experiment in Washington, D.C.. Transportation Research Record, 2019, 2673, 430-438.	1.9	9
74	Frequency and Vehicle Capacity Determination using a Dynamic Transit Assignment Model. Transportation Research Record, 2019, 2673, 574-585.	1.9	17
75	Does ride-sourcing absorb the demand for car and public transport in Amsterdam?. , 2019, , .		6
76	Analysis and Prediction of Disruptions in Metro Networks. , 2019, , .		5
77	Combining Speed Adjustment and Holding Control for Regularity-based Transit Operations. , 2019, , .		0
78	Cycling or walking? Determinants of mode choice in the Netherlands. Transportation Research, Part A: Policy and Practice, 2019, 123, 7-23.	4.2	81
79	Multiline holding based control for lines merging to a shared transit corridor. Transportmetrica B, 2019, 7, 1062-1095.	2.3	18
80	Where shall we sync? Clustering passenger flows to identify urban public transport hubs and their key synchronization priorities. Transportation Research Part C: Emerging Technologies, 2019, 98, 433-448.	7.6	35
81	Determinants of Bus Riding Time Deviations: Relationship between Driving Patterns and Transit Performance. Journal of Transportation Engineering Part A: Systems, 2019, 145, .	1.4	13
82	How does travel satisfaction sum up? An exploratory analysis in decomposing the door-to-door experience for multimodal trips. Transportation, 2019, 46, 1615-1642.	4.0	34
83	Reconciling transfer synchronization and service regularity: real-time control strategies using passenger data. Transportmetrica A: Transport Science, 2019, 15, 215-243.	2.0	29
84	Recovery time and propagation effects of passenger transport disruptions. Physica A: Statistical Mechanics and Its Applications, 2018, 505, 7-17.	2.6	29
85	Macroscopic multiple-station short-turning model in case of complete railway blockages. Transportation Research Part C: Emerging Technologies, 2018, 89, 113-132.	7.6	47
86	Enhancing flexible transport services with demand-anticipatory insertion heuristics. Transportation Research, Part E: Logistics and Transportation Review, 2018, 110, 110-121.	7.4	36
87	Impact of railway disruption predictions and rescheduling on passenger delays. Journal of Rail Transport Planning and Management, 2018, 8, 103-122.	1.4	38
88	Beyond a complete failure: the impact of partial capacity degradation on public transport network vulnerability. Transportmetrica B, 2018, 6, 77-96.	2.3	30
89	Constructing Spatiotemporal Load Profiles of Transit Vehicles with Multiple Data Sources. Transportation Research Record, 2018, 2672, 175-186.	1.9	19
90	Optimal infrastructure capacity of automated on-demand rail-bound transit systems. Transportation Research Part B: Methodological, 2018, 117, 378-392.	5.9	15

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91	Strategic Planning and Prospects of Rail-Bound Demand Responsive Transit. <i>Transportation Research Record</i> , 2018, 2672, 404-410.	1.9	8
92	Individual, Travel, and Bus Stop Characteristics Influencing Travelers' Safety Perceptions. <i>Transportation Research Record</i> , 2018, 2672, 19-28.	1.9	46
93	Evaluating a data-driven approach for choice set identification using GPS bicycle route choice data from Amsterdam. <i>Travel Behaviour & Society</i> , 2018, 13, 105-117.	5.0	38
94	Performance analysis and fleet requirements of automated demand-responsive transport systems as an urban public transport service. <i>International Journal of Transportation Science and Technology</i> , 2018, 7, 151-167.	3.6	49
95	The Potential of Demand-Responsive Transport as a Complement to Public Transport: An Assessment Framework and an Empirical Evaluation. <i>Transportation Research Record</i> , 2018, 2672, 879-889.	1.9	72
96	Modeling the impacts of public transport reliability and travel information on passengers' waiting-time uncertainty. <i>EURO Journal on Transportation and Logistics</i> , 2017, 6, 247-270.	2.2	38
97	The prospects of fare-free public transport: evidence from Tallinn. <i>Transportation</i> , 2017, 44, 1083-1104.	4.0	79
98	Willingness to pay for safety improvements in passenger air travel. <i>Journal of Air Transport Management</i> , 2017, 62, 165-175.	4.5	20
99	Topological evolution of a metropolitan rail transport network: The case of Stockholm. <i>Journal of Transport Geography</i> , 2017, 62, 172-183.	5.0	73
100	Real-time short-turning in high frequency bus services based on passenger cost. , 2017, , .		11
101	A microscopic model for optimal train short-turnings during complete blockages. <i>Transportation Research Part B: Methodological</i> , 2017, 105, 423-437.	5.9	45
102	Individual and Synergetic Effects of Transit Service Improvement Strategies: Simulation and Validation. <i>Journal of Transportation Engineering Part A: Systems</i> , 2017, 143, .	1.4	3
103	Analysis of network-wide transit passenger flows based on principal component analysis. , 2017, , .		6
104	Robustness assessment of link capacity reduction for complex networks: Application for public transport systems. <i>Reliability Engineering and System Safety</i> , 2017, 167, 544-553.	8.9	91
105	Measuring spill-over effects of disruptions in public transport networks. , 2017, , .		6
106	Railway disruption management challenges and possible solution directions. <i>Public Transport</i> , 2017, 9, 343-364.	2.7	46
107	Travel satisfaction with public transport: Determinants, user classes, regional disparities and their evolution. <i>Transportation Research, Part A: Policy and Practice</i> , 2017, 95, 64-84.	4.2	114
108	Simulating the effects of real-time crowding information in public transport networks. , 2017, , .		11

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109	How Do People Cycle in Amsterdam, Netherlands?: Estimating Cyclists' Route Choice Determinants with GPS Data from an Urban Area. <i>Transportation Research Record</i> , 2017, 2662, 75-82.	1.9	30
110	Constructing Transit Origin-Destination Matrices with Spatial Clustering. <i>Transportation Research Record</i> , 2017, 2652, 39-49.	1.9	30
111	Investigating Potential Transit Ridership by Fusing Smartcard and Global System for Mobile Communications Data. <i>Transportation Research Record</i> , 2017, 2652, 50-58.	1.9	12
112	A hybrid scheme for real-time prediction of bus trajectories. <i>Journal of Advanced Transportation</i> , 2016, 50, 2130-2149.	1.7	4
113	Designing an Automated Demand-Responsive Transport System: Fleet Size and Performance Analysis for a Campus Train Station Service. <i>Transportation Research Record</i> , 2016, 2542, 75-83.	1.9	37
114	A dynamic stochastic model for evaluating congestion and crowding effects in transit systems. <i>Transportation Research Part B: Methodological</i> , 2016, 89, 43-57.	5.9	93
115	The robustness value of public transport development plans. <i>Journal of Transport Geography</i> , 2016, 51, 236-246.	5.0	40
116	Feature Selection Issues in Long-Term Travel Time Prediction. <i>Lecture Notes in Computer Science</i> , 2016, , 98-109.	1.3	9
117	Modelling public transport on-board congestion: comparing schedule-based and agent-based assignment approaches and their implications. <i>Journal of Advanced Transportation</i> , 2016, 50, 1209-1224.	1.7	15
118	Railway disruption timetable: Short-turnings in case of complete blockage. , 2016, , .		15
119	An online learning approach to eliminate Bus Bunching in real-time. <i>Applied Soft Computing Journal</i> , 2016, 47, 460-482.	7.2	59
120	Survey methodology for measuring parking occupancy: Impacts of an on-street parking pricing scheme in an urban center. <i>Transport Policy</i> , 2016, 47, 55-63.	6.6	51
121	Evaluating the added-value of online bus arrival prediction schemes. <i>Transportation Research, Part A: Policy and Practice</i> , 2016, 86, 35-55.	4.2	12
122	Evaluating the impacts and benefits of public transport design and operational measures. <i>Transport Policy</i> , 2016, 48, 105-116.	6.6	26
123	Real-Time Bus Arrival Information System: An Empirical Evaluation. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2016, 20, 138-151.	4.2	41
124	The Theory of Transit Assignment: Basic Modelling Frameworks. <i>Springer Tracts on Transportation and Traffic</i> , 2016, , 287-386.	0.2	18
125	Automated Setting of Bus Schedule Coverage Using Unsupervised Machine Learning. <i>Lecture Notes in Computer Science</i> , 2016, , 552-564.	1.3	11
126	Applications and Future Developments: Modeling Software and Advanced Applications. <i>Springer Tracts on Transportation and Traffic</i> , 2016, , 521-560.	0.2	1

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127	Evolution of Satisfaction with Public Transport and Its Determinants in Sweden. <i>Transportation Research Record</i> , 2015, 2538, 86-95.	1.9	31
128	Implementing a Behavioural Pilot Survey for the Stage-based Study of the whole Journey Traveller Experience. <i>Transportation Research Procedia</i> , 2015, 11, 172-184.	1.5	9
129	Identification and classification of public transport activity centres in Stockholm using passenger flows data. <i>Journal of Transport Geography</i> , 2015, 48, 10-22.	5.0	48
130	Improving Public Transport Decision Making, Planning and Operations by Using Big Data: Cases from Sweden and the Netherlands. , 2015, , .		12
131	Planning for the unexpected: The value of reserve capacity for public transport network robustness. <i>Transportation Research, Part A: Policy and Practice</i> , 2015, 81, 47-61.	4.2	60
132	The value of new public transport links for network robustness and redundancy. <i>Transportmetrica A: Transport Science</i> , 2015, 11, 819-835.	2.0	54
133	Optimizing the number and location of time point stops. <i>Public Transport</i> , 2014, 6, 215-235.	2.7	21
134	Measuring Bus Drivers' Occupational Stress under Changing Working Conditions. <i>Transportation Research Record</i> , 2014, 2415, 13-20.	1.9	19
135	Real-time predictions for Light rail train systems. , 2014, , .		4
136	Real-time bus departure time predictions: Vehicle trajectory and countdown display analysis. , 2014, , .		6
137	Exploring key determinants of travel satisfaction for multi-modal trips by different traveler groups. <i>Transportation Research, Part A: Policy and Practice</i> , 2014, 67, 366-380.	4.2	85
138	Regularity-driven bus operation: Principles, implementation and business models. <i>Transport Policy</i> , 2014, 36, 223-230.	6.6	45
139	Dynamic Vulnerability Analysis of Public Transport Networks: Mitigation Effects of Real-Time Information. <i>Networks and Spatial Economics</i> , 2014, 14, 435-463.	1.6	127
140	An Agent-based Approach for Modeling Real-time Travel Information in Transit Systems. <i>Procedia Computer Science</i> , 2014, 32, 744-749.	2.0	5
141	Public Transport Pricing Policy. <i>Transportation Research Record</i> , 2014, 2415, 89-96.	1.9	36
142	The Value of New Cross-Radial Links for Public Transport Network Robustness. , 2014, , .		1
143	Measuring quality across the whole journey. , 2014, , 316-323.		3
144	Multi-agent Transit Operations and Assignment Model. <i>Procedia Computer Science</i> , 2013, 19, 809-814.	2.0	25

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145	Real-time bus arrival information system-an empirical evaluation. , 2013, , .		7
146	Bus-Holding Control Strategies. Transportation Research Record, 2012, 2274, 100-108.	1.9	53
147	Effect of Real-Time Transit Information on Dynamic Path Choice of Passengers. Transportation Research Record, 2011, 2217, 46-54.	1.9	88
148	Impacts of Holding Control Strategies on Transit Performance. Transportation Research Record, 2011, 2216, 51-58.	1.9	96
149	Mesoscopic Modeling of Bus Public Transportation. Transportation Research Record, 2010, 2188, 9-18.	1.9	42
150	Mesoscopic simulation for transit operations. Transportation Research Part C: Emerging Technologies, 2010, 18, 896-908.	7.6	76
151	Evaluation of real-time holding strategies for improved bus service reliability. , 2010, , .		9