

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	COVID-19 and Public Transportation: Current Assessment, Prospects, and Research Needs. <i>Journal of Public Transportation</i> , 2020, 22, .	1.2	490
2	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
3	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
4	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
5	Impacts of Holding Control Strategies on Transit Performance. <i>Transportation Research Record</i> , 2011, 2216, 51-58.	1.9	96
6	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
7	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
8	Effect of Real-Time Transit Information on Dynamic Path Choice of Passengers. <i>Transportation Research Record</i> , 2011, 2217, 46-54.	1.9	88
9	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
10	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
11	Cycling or walking? Determinants of mode choice in the Netherlands. <i>Transportation Research, Part A: Policy and Practice</i> , 2019, 123, 7-23.	4.2	81
12	The prospects of fare-free public transport: evidence from Tallinn. <i>Transportation</i> , 2017, 44, 1083-1104.	4.0	79
13	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
14	Mesoscopic simulation for transit operations. <i>Transportation Research Part C: Emerging Technologies</i> , 2010, 18, 896-908.	7.6	76
15	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
16	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
17	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
18	Value of time and reliability for urban pooled on-demand services. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 115, 102621.	7.6	60

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19	An online learning approach to eliminate Bus Bunching in real-time. Applied Soft Computing Journal, 2016, 47, 460-482.	7.2	59
20	The value of new public transport links for network robustness and redundancy. Transportmetrica A: Transport Science, 2015, 11, 819-835.	2.0	54
21	Bus-Holding Control Strategies. Transportation Research Record, 2012, 2274, 100-108.	1.9	53
22	Survey methodology for measuring parking occupancy: Impacts of an on-street parking pricing scheme in an urban center. Transport Policy, 2016, 47, 55-63.	6.6	51
23	Performance analysis and fleet requirements of automated demand-responsive transport systems as an urban public transport service. International Journal of Transportation Science and Technology, 2018, 7, 151-167.	3.6	49
24	What are the determinants of the willingness to share rides in pooled on-demand services?. Transportation, 2021, 48, 1733-1765.	4.0	49
25	Identification and classification of public transport activity centres in Stockholm using passenger flows data. Journal of Transport Geography, 2015, 48, 10-22.	5.0	48
26	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
27	A data driven method for OD matrix estimation. Transportation Research Part C: Emerging Technologies, 2020, 113, 38-56.	7.6	47
28	Railway disruption management challenges and possible solution directions. Public Transport, 2017, 9, 343-364.	2.7	46
29	Individual, Travel, and Bus Stop Characteristics Influencing Travelers' Safety Perceptions. Transportation Research Record, 2018, 2672, 19-28.	1.9	46
30	Regularity-driven bus operation: Principles, implementation and business models. Transport Policy, 2014, 36, 223-230.	6.6	45
31	A microscopic model for optimal train short-turnings during complete blockages. Transportation Research Part B: Methodological, 2017, 105, 423-437.	5.9	45
32	Mesoscopic Modeling of Bus Public Transportation. Transportation Research Record, 2010, 2188, 9-18.	1.9	42
33	The underlying effect of public transport reliability on users' satisfaction. Transportation Research, Part A: Policy and Practice, 2019, 126, 83-93.	4.2	42
34	Real-Time Bus Arrival Information System: An Empirical Evaluation. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2016, 20, 138-151.	4.2	41
35	The robustness value of public transport development plans. Journal of Transport Geography, 2016, 51, 236-246.	5.0	40
36	Modeling the impacts of public transport reliability and travel information on passengers' waiting-time uncertainty. EURO Journal on Transportation and Logistics, 2017, 6, 247-270.	2.2	38

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37	Impact of railway disruption predictions and rescheduling on passenger delays. <i>Journal of Rail Transport Planning and Management</i> , 2018, 8, 103-122.	1.4	38
38	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
39	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
40	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
41	Public Transport Pricing Policy. <i>Transportation Research Record</i> , 2014, 2415, 89-96.	1.9	36
42	Enhancing flexible transport services with demand-anticipatory insertion heuristics. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2018, 110, 110-121.	7.4	36
43	Metropolitan rail network robustness. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 549, 124317.	2.6	36
44	Where shall we sync? Clustering passenger flows to identify urban public transport hubs and their key synchronization priorities. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 98, 433-448.	7.6	35
45	How does travel satisfaction sum up? An exploratory analysis in decomposing the door-to-door experience for multimodal trips. <i>Transportation</i> , 2019, 46, 1615-1642.	4.0	34
46	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
47	Evolution of Satisfaction with Public Transport and Its Determinants in Sweden. <i>Transportation Research Record</i> , 2015, 2538, 86-95.	1.9	31
48	Public transport fare elasticities from smartcard data: Evidence from a natural experiment. <i>Transport Policy</i> , 2021, 105, 35-43.	6.6	31
49	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
50	Beyond a complete failure: the impact of partial capacity degradation on public transport network vulnerability. <i>Transportmetrica B</i> , 2018, 6, 77-96.	2.3	30
51	Latent classes of daily mobility patterns: the relationship with attitudes towards modes. <i>Transportation</i> , 2020, 47, 1843-1866.	4.0	30
52	Constructing Transit Origin-Destination Matrices with Spatial Clustering. <i>Transportation Research Record</i> , 2017, 2652, 39-49.	1.9	30
53	Recovery time and propagation effects of passenger transport disruptions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 505, 7-17.	2.6	29
54	Reconciling transfer synchronization and service regularity: real-time control strategies using passenger data. <i>Transportmetrica A: Transport Science</i> , 2019, 15, 215-243.	2.0	29

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55	Understanding ride-sourcing drivers' behaviour and preferences: Insights from focus groups analysis. <i>Research in Transportation Business and Management</i> , 2020, 37, 100516.	2.9	29
56	Exact matching of attractive shared rides (ExMAS) for system-wide strategic evaluations. <i>Transportation Research Part B: Methodological</i> , 2020, 139, 285-310.	5.9	28
57	Evaluating the impacts and benefits of public transport design and operational measures. <i>Transport Policy</i> , 2016, 48, 105-116.	6.6	26
58	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
59	Multi-agent Transit Operations and Assignment Model. <i>Procedia Computer Science</i> , 2013, 19, 809-814.	2.0	25
60	Robust Network-Wide Bus Scheduling With Transfer Synchronizations. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020, 21, 4582-4592.	8.0	25
61	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
62	Passenger Travel Time Reliability for Multimodal Public Transport Journeys. <i>Transportation Research Record</i> , 2019, 2673, 149-160.	1.9	24
63	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
64	Optimizing the number and location of time point stops. <i>Public Transport</i> , 2014, 6, 215-235.	2.7	21
65	The experienced mode choice set and its determinants: Commuting trips in the Netherlands. <i>Transportation Research, Part A: Policy and Practice</i> , 2020, 132, 744-758.	4.2	21
66	Willingness to pay for safety improvements in passenger air travel. <i>Journal of Air Transport Management</i> , 2017, 62, 165-175.	4.5	20
67	Beyond the dichotomy: How ride-hailing competes with and complements public transport. <i>PLoS ONE</i> , 2022, 17, e0262496.	2.5	20
68	Measuring Bus Drivers' Occupational Stress under Changing Working Conditions. <i>Transportation Research Record</i> , 2014, 2415, 13-20.	1.9	19
69	Constructing Spatiotemporal Load Profiles of Transit Vehicles with Multiple Data Sources. <i>Transportation Research Record</i> , 2018, 2672, 175-186.	1.9	19
70	Integrating network science and public transport accessibility analysis for comparative assessment. <i>Journal of Transport Geography</i> , 2019, 80, 102505.	5.0	18
71	Multiline holding based control for lines merging to a shared transit corridor. <i>Transportmetrica B</i> , 2019, 7, 1062-1095.	2.3	18
72	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

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73	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
74	The Theory of Transit Assignment: Basic Modelling Frameworks. Springer Tracts on Transportation and Traffic, 2016, , 287-386.	0.2	18
75	Multi-constrained bus holding control in time windows with branch and bound and alternating minimization. <i>Transportmetrica B</i> , 2019, 7, 1258-1285.	2.3	17
76	Frequency and Vehicle Capacity Determination using a Dynamic Transit Assignment Model. <i>Transportation Research Record</i> , 2019, 2673, 574-585.	1.9	17
77	Modelling growth principles of metropolitan public transport networks. <i>Journal of Transport Geography</i> , 2020, 82, 102567.	5.0	17
78	Predicting disruptions and their passenger delay impacts for public transport stops. <i>Transportation</i> , 2021, 48, 1703-1731.	4.0	17
79	Designing bus rapid transit systems: Lessons on service reliability and operations. <i>Case Studies on Transport Policy</i> , 2020, 8, 946-953.	2.5	16
80	A passenger-pedestrian model to assess platform and train usage from automated data. <i>Transportation Research, Part A: Policy and Practice</i> , 2020, 132, 948-968.	4.2	16
81	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
82	Railway disruption timetable: Short-turnings in case of complete blockage. , 2016, , .		15
83	Optimal infrastructure capacity of automated on-demand rail-bound transit systems. <i>Transportation Research Part B: Methodological</i> , 2018, 117, 378-392.	5.9	15
84	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
85	Determinants of Bus Riding Time Deviations: Relationship between Driving Patterns and Transit Performance. <i>Journal of Transportation Engineering Part A: Systems</i> , 2019, 145, .	1.4	13
86	Joint optimisation of regular and demand-responsive transit services. <i>Transportmetrica A: Transport Science</i> , 2023, 19, .	2.0	13
87	Improving Public Transport Decision Making, Planning and Operations by Using Big Data: Cases from Sweden and the Netherlands. , 2015, , .		12
88	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
89	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
90	Determinants of passengers' metro car choice revealed through automated data sources: a Stockholm case study. <i>Transportmetrica A: Transport Science</i> , 2020, 16, 529-549.	2.0	12

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91	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
92	Real-time short-turning in high frequency bus services based on passenger cost. , 2017, , .		11
93	Simulating the effects of real-time crowding information in public transport networks. , 2017, , .		11
94	Automated Setting of Bus Schedule Coverage Using Unsupervised Machine Learning. <i>Lecture Notes in Computer Science</i> , 2016, , 552-564.	1.3	11
95	Learning and Adaptation in Dynamic Transit Assignment Models for Congested Networks. <i>Transportation Research Record</i> , 2020, 2674, 113-124.	1.9	10
96	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
97	Modelling virus spreading in ride-pooling networks. <i>Scientific Reports</i> , 2021, 11, 7201.	3.3	10
98	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
99	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
100	Evaluation of real-time holding strategies for improved bus service reliability. , 2010, , .		9
101	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
102	Feature Selection Issues in Long-Term Travel Time Prediction. <i>Lecture Notes in Computer Science</i> , 2016, , 98-109.	1.3	9
103	Lessons and Evaluation of a Headway Control Experiment in Washington, D.C.. <i>Transportation Research Record</i> , 2019, 2673, 430-438.	1.9	9
104	Is flat fare fair? Equity impact of fare scheme change. <i>Transport Policy</i> , 2020, 91, 48-58.	6.6	9
105	Quantifying travellersâ€™ evaluation of waiting time uncertainty in public transport networks. <i>Travel Behaviour & Society</i> , 2021, 25, 209-222.	5.0	9
106	A review of public transport transfer synchronisation at the real-time control phase. <i>Transport Reviews</i> , 2023, 43, 88-107.	8.8	9
107	Potential of on-demand services for urban travel. <i>Transportation</i> , 2023, 50, 1289-1321.	4.0	9
108	Mitigating bus bunching with real-time crowding information. <i>Transportation</i> , 2023, 50, 1003-1030.	4.0	9

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109	Strategic Planning and Prospects of Rail-Bound Demand Responsive Transit. <i>Transportation Research Record</i> , 2018, 2672, 404-410.	1.9	8
110	Estimation of metro network passenger delay from individual trajectories. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 117, 102704.	7.6	8
111	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
112	Quantifying the cascading effects of passenger delays. <i>Reliability Engineering and System Safety</i> , 2021, 212, 107629.	8.9	8
113	Unravelling individual mobility temporal patterns using longitudinal smart card data. <i>Research in Transportation Business and Management</i> , 2022, 43, 100816.	2.9	8
114	Real-time bus arrival information system-an empirical evaluation. , 2013, , .		7
115	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
116	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
117	Network design for line-based autonomous bus services. <i>Transportation</i> , 2022, 49, 467-502.	4.0	7
118	Simulation of fixed versus on-demand station-based feeder operations. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 132, 103401.	7.6	7
119	Impact of introducing a metro line on urban bus services. <i>Case Studies on Transport Policy</i> , 2022, 10, 940-947.	2.5	7
120	Real-time bus departure time predictions: Vehicle trajectory and countdown display analysis. , 2014, , .		6
121	Analysis of network-wide transit passenger flows based on principal component analysis. , 2017, , .		6
122	Measuring spill-over effects of disruptions in public transport networks. , 2017, , .		6
123	Does ride-sourcing absorb the demand for car and public transport in Amsterdam?. , 2019, , .		6
124	Fair accessibility â€œ Operationalizing the distributional effects of policy interventions. <i>Journal of Transport Geography</i> , 2020, 89, 102890.	5.0	6
125	Multi-modal network evolution in polycentric regions. <i>Journal of Transport Geography</i> , 2021, 96, 103159.	5.0	6
126	How to split the costs and charge the travellers sharing a ride? aligning systemâ€™s optimum with usersâ€™ equilibrium. <i>European Journal of Operational Research</i> , 2022, 301, 956-973.	5.7	6

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127	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
128	Simulating two-sided mobility platforms with MaaS-Sim. <i>PLoS ONE</i> , 2022, 17, e0269682.	2.5	6
129	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
130	Analysis and Prediction of Disruptions in Metro Networks. , 2019, , .		5
131	Examining circuitry of urban transit networks from an equity perspective. <i>Journal of Transport Geography</i> , 2021, 91, 102980.	5.0	5
132	A holding control strategy for diverging bus lines. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 126, 103087.	7.6	5
133	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
134	Perception of overlap in multi-modal urban transit route choice. <i>Transportmetrica A: Transport Science</i> , 2023, 19, .	2.0	5
135	Real-time predictions for Light rail train systems. , 2014, , .		4
136	A hybrid scheme for real-time prediction of bus trajectories. <i>Journal of Advanced Transportation</i> , 2016, 50, 2130-2149.	1.7	4
137	Heuristic Coarsening for Generating Multiscale Transport Networks. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020, 21, 2240-2253.	8.0	4
138	The potential of real-time crowding information in reducing bus bunching under different network saturation levels. , 2021, , .		4
139	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
140	Calibrating Route Choice Sets for an Urban Public Transport Network using Smart Card Data. , 2019, , .		3
141	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
142	Measuring quality across the whole journey. , 2014, , 316-323.		3
143	Evolution of labour supply in ridesourcing. <i>Transportmetrica B</i> , 2022, 10, 599-626.	2.3	3
144	Robust Control for Regulating Frequent Bus Service: Supporting the Implementation of Headway-Based Holding Strategies. <i>Transportation Research Record</i> , 2019, 2673, 654-665.	1.9	2

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145	Distribution of passenger costs in fixed versus flexible station-based feeder services. Transportation Research Procedia, 2020, 47, 179-186.	1.5	2
146	Voting with one's feet: Unraveling urban centers attraction using visiting frequency. Cities, 2022, 127, 103773.	5.6	2
147	The Value of New Cross-Radial Links for Public Transport Network Robustness. , 2014, , .		1
148	A compact and scalable representation of network traffic dynamics using shapes and its applications. Transportation Research Part C: Emerging Technologies, 2020, 121, 102850.	7.6	1
149	Evaluating crowding in individual train cars using a dynamic transit assignment model. Transportmetrica B, 2021, 9, 693-711.	2.3	1
150	Applications and Future Developments: Modeling Software and Advanced Applications. Springer Tracts on Transportation and Traffic, 2016, , 521-560.	0.2	1
151	Combining Speed Adjustment and Holding Control for Regularity-based Transit Operations. , 2019, , .		0