Martin TrÃ©panier

List of Publications by Year
in descending order

93 papers	2,992 citations	257101 24 h-index	182168 51 g-index
93 all docs	93 docs citations	93 times ranked	2151 citing authors

#	Article	IF	Citations
1	Smart card data use in public transit: A literature review. Transportation Research Part C: Emerging Technologies, 2011, 19, 557-568.	3.9	684
2	Individual Trip Destination Estimation in a Transit Smart Card Automated Fare Collection System. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2007, 11, 1-14.	2.6	282
3	Measuring transit use variability with smart-card data. Transport Policy, 2007, 14, 193-203.	3.4	212
4	Analyzing year-to-year changes in public transport passenger behaviour using smart card data. Transportation Research Part C: Emerging Technologies, 2017, 79, 274-289.	3.9	134
5	MINING PUBLIC TRANSPORT USER BEHAVIOUR FROM SMART CARD DATA. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 399-404.	0.4	115
6	How Carsharing Affects the Travel Behavior of Households: A Case Study of MontrÃ©al, Canada. International Journal of Sustainable Transportation, 2013, 7, 52-69.	2.1	112
7	Detection of Activities of Public Transport Users by Analyzing Smart Card Data. Transportation Research Record, 2012, 2276, 48-55.	1.0	107
8	Walking to transit: An unexpected source of physical activity. Transport Policy, 2011, 18, 800-806.	3.4	74
9	Calculation of Transit Performance Measures Using Smartcard Data. Journal of Public Transportation, 2009, 12, 79-96.	0.3	52
10	A classification of public transit users with smart card data based on time series distance metrics and a hierarchical clustering method. Transportmetrica A: Transport Science, 2020, 16, 56-75.	1.3	48
11	The capacitated arc routing problem with refill points. Operations Research Letters, 2007, 35, 45-53.	0.5	46
12	Short & long term forecasting of multimodal transport passenger flows with machine learning methods. , 2017, , .		45
13	Are transit users loyal? Revelations from a hazard model based on smart card data. Canadian Journal of Civil Engineering, 2012, 39, 610-618.	0.7	42
14	A survey of models and algorithms for emergency response logistics in electric distribution systems. Part I: Reliability planning with fault considerations. Computers and Operations Research, 2013, 40, 1895-1906.	2.4	37
15	Risk factors associated with self-reported musculoskeletal pain among short and long distance industrial gas delivery truck drivers. Applied Ergonomics, 2018, 72, 69-87.	1.7	37
16	Electric and hybrid car use in a free-floating carsharing system. International Journal of Sustainable Transportation, 2017, 11, 161-169.	2.1	35
17	A survey of models and algorithms for emergency response logistics in electric distribution systems. Part II: Contingency planning level. Computers and Operations Research, 2013, 40, 1907-1922.	2.4	34
18	Car sharing system: what transaction datasets reveal on users' behaviors. , 2007, , .		33

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19	Assessing Impact of Carsharing on Household Car Ownership in Montreal, Quebec, Canada. Transportation Research Record, 2014, 2416, 48-55.	1.0	33
20	Estimating the Destination of Unlinked Trips in Transit Smart Card Fare Data. Transportation Research Record, 2015, 2535, 97-104.	1.0	33
21	A visual segmentation method for temporal smart card data. Transportmetrica A: Transport Science, 2017, 13, 381-404.	1.3	33
22	Integration of inventory and transportation decisions in decentralised supply chains. International Journal of Logistics Systems and Management, 2009, 5, 249.	0.2	31
23	Geodemographic analysis and the identification of potential business partnerships enabled by transit smart cards. Transportation Research, Part A: Policy and Practice, 2011, 45, 640-652.	2.0	30
24	Evaluation Criteria of Smart City Mobility System Using MCDM Method. Baltic Journal of Road and Bridge Engineering, 2020, 15, 196-224.	0.4	28
25	Road network monitoring: algorithms and a case study. Computers and Operations Research, 2006, 33, 3494-3507.	2.4	27
26	Analyzing Transit User Behavior with 51 Weeks of Smart Card Data. Transportation Research Record, 2019, 2673, 33-45.	1.0	27
27	Integrating parking behaviour in activity-based travel demand modelling: Investigation of the relationship between parking type choice and activity scheduling process. Transportation Research, Part A: Policy and Practice, 2012, 46, 154-166.	2.0	25
28	Cross-analysis of hazmat road accidents using multiple databases. Accident Analysis and Prevention, 2009, 41, 1192-1198.	3.0	24
29	Driver-Assisted Bus Interview. Transportation Research Record, 2009, 2105, 1-10.	1.0	23
30	Probabilistic model for destination inference and travel pattern mining from smart card data. Transportation, 2021, 48, 2035-2053.	2.1	23
31	Incorporating travel behavior regularity into passenger flow forecasting. Transportation Research Part C: Emerging Technologies, 2021, 128, 103200.	3.9	23
32	Economic Assessment of Rural District Heating by Bio-Steam Supplied by a Paper Mill in Canada. Bulletin of Science, Technology and Society, 2008, 28, 159-173.	1.1	22
33	Object-Oriented Analysis of Carsharing System. Transportation Research Record, 2008, 2063, 105-112.	1.0	20
34	Unraveling the Travel Behavior of Carsharing Members from Global Positioning System Traces. Transportation Research Record, 2013, 2359, 59-67.	1.0	20
35	Modeling bus bunching using massive location and fare collection data. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2019, 23, 332-344.	2.6	20
36	What about Free-Floating Carsharing?. Transportation Research Record, 2016, 2563, 28-36.	1.0	18

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37	Carsharing Versus Bikesharing. Transportation Research Record, 2017, 2650, 112-122.	1.0	18
38	Analyse orientÃ©e-objet et totalement dÃ©sagrÃ©gÃ©e des donnÃ©es d'enquÃªtes mÃ©nages origine-destination. Canadian Journal of Civil Engineering, 2001, 28, 48-58.	0.7	17
39	Strategic simulation of the energy management in a Kraft mill. Energy Conversion and Management, 2010, 51, 988-997.	4.4	16
40	Travel time reliability on a highway network: estimations using floating car data. Transportation Letters, 2010, 2, 27-37.	1.8	16
41	Innovative GTFS Data Application for Transit Network Analysis Using a Graph-Oriented Method. Journal of Public Transportation, 2016, 19, 18-37.	0.3	16
42	Transit network design using a genetic algorithm with integrated road network and disaggregated Oâ€“D demand data. Transportation, 2021, 48, 95-130.	2.1	15
43	Real-Time Forecasting of Metro Origin-Destination Matrices with High-Order Weighted Dynamic Mode Decomposition. Transportation Science, 2022, 56, 904-918.	2.6	15
44	Assessing the Evolution of Transit User Behavior from Smart Card Data. Transportation Research Record, 2019, 2673, 184-194.	1.0	14
45	A case study of snow plow routing using an adaptive large hood search metaheuristic. Transportation Letters, 2015, 7, 201-209.	1.8	13
46	DESTINATION ESTIMATION FROM PUBLIC TRANSPORT SMARTCARD DATA. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 393-398.	0.4	12
47	Demographic Analysis of Route Choice for Public Transit. Transportation Research Record, 2011, 2217, 71-78.	1.0	12
48	Application of an independent availability logit model (IAL) for route choice modelling: Considering bridge choice as a key determinant of selected routes for commuting in Montreal. Journal of Choice Modelling, 2013, 9, 14-26.	1.2	12
49	Can Trip Planner Log Files Analysis Help in Transit Service Planning?. Journal of Public Transportation, 2005, 8, 79-103.	0.3	12
50	A heuristic method for the capacitated arc routing problem with refill points and multiple loads. Journal of the Operational Research Society, 2010, 61, 1095-1103.	2.1	11
51	Challenges in Spatial-Temporal Data Analysis Targeting Public TransportÃ•. IFAC-PapersOnLine, 2015, 48, 442-447.	0.5	11
52	A case study of combined winter road snow plowing and de-icer spreading. Canadian Journal of Civil Engineering, 2017, 44, 1005-1013.	0.7	10
53	Assessing the public transport travel behavior consistency from smart card data. Transportation Research Procedia, 2018, 32, 44-53.	0.8	10
54	Safety management in hazardous materials logistics. Transportation Letters, 2010, 2, 13-25.	1.8	9

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55	Integrated Intervening Opportunities Model for Public Transit Trip Generationâ€“Distribution. Transportation Research Record, 2013, 2350, 47-57.	1.0	9
56	Solving the largeâ€scale minâ€“max Kâ€rural postman problem for snow plowing. Networks, 2017, 70, 195-215.	1.6	9
57	Measuring the quality and diversity of transit alternatives. Transport Policy, 2018, 61, 51-59.	3.4	9
58	Streetâ€segmentâ€based salt and abrasive prediction for winter maintenance using machine learning and GIS. Transactions in GIS, 2019, 23, 48-69.	1.0	9
59	Workshop Synthesis: System Based Passive Data Streams Systems; Smart Cards, Phone Data, GPS. Transportation Research Procedia, 2015, 11, 340-349.	0.8	8
60	Exploring Service Usage and Activity Space Evolution in a Free-Floating Carsharing Service. Transportation Research Record, 2019, 2673, 36-49.	1.0	8
61	Solving the clustered traveling salesman problem with â€relaxed priority rule. International Transactions in Operational Research, 2022, 29, 837-853.	1.8	8
62	Measuring Changes in Multimodal Travel Behavior Resulting from Transport Supply Improvement. Transportation Research Record, 2021, 2675, 533-546.	1.0	7
63	Robust optimization for the hierarchical mixed capacitated general routing problem applied to winter road maintenance. Computers and Industrial Engineering, 2021, 158, 107396.	3.4	7
64	Smart Urban Mobility System Evaluation Model Adaptation to Vilnius, Montreal and Weimar Cities. Sustainability, 2022, 14, 715.	1.6	7
65	A GIS-based tool for distribution system data integration and analysis. Journal of Hydroinformatics, 2006, 8, 13-24.	1.1	6
66	Revisiting the destination ranking procedure in development of an Intervening Opportunities Model for public transit trip distribution. Journal of Geographical Systems, 2015, 17, 61-81.	1.9	6
67	Comparing multiple data streams to assess free-floating carsharing use. Transportation Research Procedia, 2018, 32, 617-626.	0.8	6
68	Assessment of physical work demands of long-distance industrial gas delivery truck drivers. Applied Ergonomics, 2021, 90, 103224.	1.7	6
69	Spaceâ€“time classification of public transit smart card usersâ€™ activity locations from smart card data. Public Transport, 2021, 13, 579-595.	1.7	6
70	Assessing the effect of distribution system O&M on water quality. Journal - American Water Works Association, 2007, 99, 77-91.	0.2	5
71	Modeling isoexposure to transit users for market potential analysis. Transportation Research, Part A: Policy and Practice, 2012, 46, 1517-1527.	2.0	5
72	Using 5 parallel passive data streams to report on a wide range of mobility options. Transportation Research Procedia, 2018, 32, 82-92.	0.8	5

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73	The mixed capacitated general routing problem with timeâ€dependent demands. Networks, 2020, 76, 467-484.	1.6	5
74	Adjusting Dwell Time for Paratransit Services. Transportation Research Record, 2020, 2674, 638-648.	1.0	5
75	Organizational safety practices of hazardous materials carriers. Transportation Letters, 2011, 3, 149-159.	1.8	4
76	Assessment of physical work demand of short distance industrial gas delivery truck drivers. Applied Ergonomics, 2020, 89, 103222.	1.7	3
77	Predicting Carsharing Station-Based Trip Generation Using a Growth Model. Transportation Research Procedia, 2020, 48, 1466-1477.	0.8	3
78	Forecasting a customer's Next Time Under Safety Stock. International Journal of Production Economics, 2021, 234, 108044.	5.1	3
79	Transit Path Calculation Supported by Special Geographic Information System-Transit Information System. , 0, .		3
80	Bridging the gap between complex data and decision-makers: an example of an innovative interactive tool. Transportation Planning and Technology, 2010, 33, 465-479.	0.9	2
81	Assessing longitudinal stability of public transport users with smart card data. Transportation Research Procedia, 2020, 48, 1364-1375.	0.8	2
82	Participation in Shared Mobility: An Analysis of the Influence of Walking and Public Transport Accessibility to Vehicles on Carsharing Membership in Montreal, Canada. Transportation Research Record, 2021, 2675, 1160-1171.	1.0	2
83	Les logiciels d'enquÃªte transport comme instruments incontournables de la planification analytique. Recherche - Transports - Securite, 2001, 70, 59-77.	0.1	1
84	Characterising Annual Behaviour of Carsharing Users in Montreal. Transportation Research Procedia, 2020, 48, 1435-1449.	0.8	1
85	Latent stage model for carsharing usage frequency estimation with MontrÃ©al case study. Transportation, 0, , 1.	2.1	1
86	DifficultÃ©s liÃ©es Ã l'intÃ©gration de la gestion des ressources dans le pilotage des opÃ©rations. Journal Europeen Des Systemes Automatises, 2004, 38, 773-795.	0.3	1
87	Criteria to prioritize opportunities to shift paratransit trips to regular transit network â€“ Montreal case study. Journal of Transport and Health, 2022, 24, 101338.	1.1	1
88	From computer-aided transit scheduling to systems and surveys in public transport. Public Transport, 2022, 14, 1-3.	1.7	1
89	Development of an Interactive Analyzer to Identify Sources of Water Quality Problems in Distribution Systems. , 2001, , 1.		0
90	Models for integrated resource and operation scheduling. Computer Aided Chemical Engineering, 2005, 20, 1633-1638.	0.3	0

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91	A bi-level representational model of hazardous material supply chains. International Journal of Logistics Systems and Management, 2010, 6, 380.	0.2	0
92	Enhancing the Value of an Incidents Database with an Interactive Visualization Tool. , 2011, , .		0
93	Ergonomic Assessment of Exposure to Musculoskeletal Disorders Risk Factors Among Canadian Truck Drivers. Lecture Notes in Networks and Systems, 2021, , 829-836.	0.5	0