



Institute of Transport Studies (Monash)
The Australian Research Council Key Centre in Transport Management

Institute of Transport Studies, Monash University
World Transit Research

World Transit Research Newsletter

12-2020

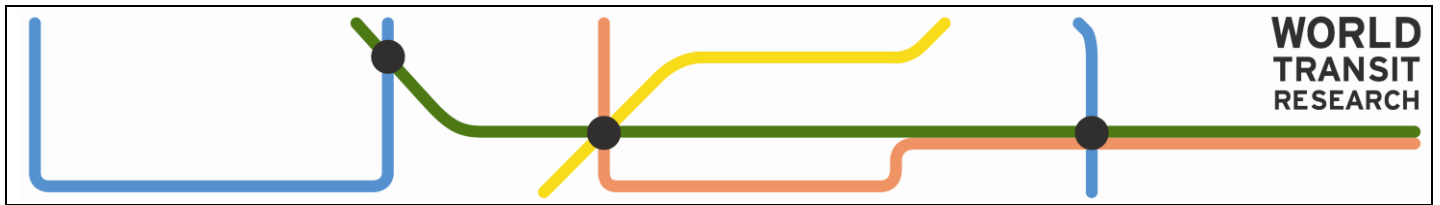
World Transit Research December 2020 Newsletter

Institute of Transport Studies Monash University

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WTR is now used by public transport researchers in over 8,000 cities and towns in 170 countries worldwide.

BACKGROUND

World Transit Research (WTR) is designed to help public transport practitioners and researchers get easier access to quality research in the field of public transport planning. WTR is a free repository of research papers, reports, research abstracts and links to research findings from leading research journals indexed and searchable to ensure easier access to topics of interest. The site is developed and run by the [Public Transport Research Group](#) at the Institute of Transport Studies, Monash University. The clearinghouse performs the following functions:

- Search/Find – The database is searchable on key words and also via a list of subject areas
- Newsletter Subscription – Those accessing the website can enrol in a free email newsletter. This broadcasts new publications in the field every 2 months
- Links – links to relevant associated sites are provided
- Submit Research – Researchers can use the website to suggest items for inclusion in the database. Copyright requirements are described.

NEWSLETTER

Your recommendation can help grow our number of subscribers. Do you know someone interested in public transport research that would like to receive this newsletter? Ask them to go to <http://www.worldtransitresearch.info/> and enter their email address in the box provided under Newsletter.

NEW ADDITIONS

World Transit Research clearinghouse now includes some 8,150 research reports/papers. Some 95 published papers have been added. The new ones are listed in the attached table. In addition new journals and relevant papers are also occasionally added from previous publication records.

CONTRIBUTE YOUR RESEARCH AND INCREASE YOUR CITATIONS

Should you have any relevant papers that you think should be included in this repository, please log on to www.worldtransitresearch.info and click on the Submit Research icon. The WTR Clearinghouse is a very effective tool to increase author citations of research since it acts to publicise your research to those interested in this field.

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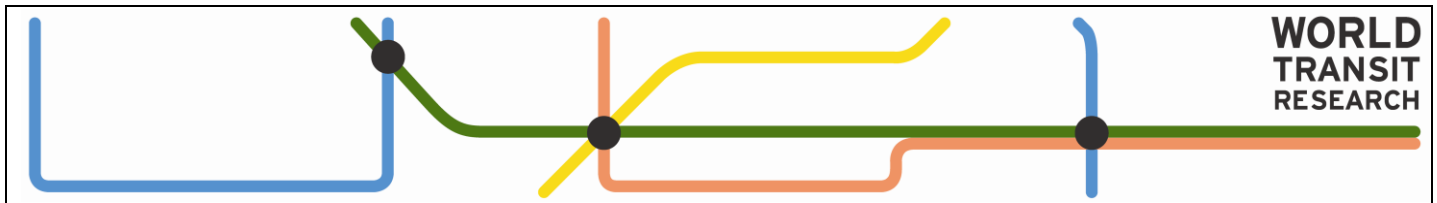
SUGGESTIONS WELCOMED

If you have any queries or suggestions on how to improve our publication, we would love to hear from you at: enquiries@worldtransitresearch.info

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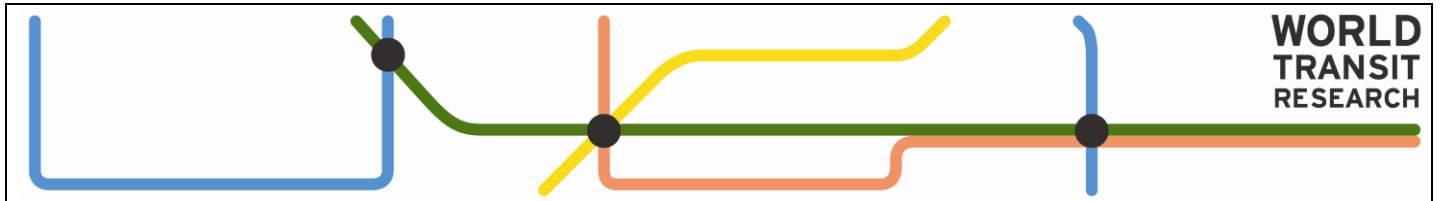
WORLD TRANSIT RESEARCH – NEW RESEARCH PUBLICATIONS

AUTHOR	TITLE	CATEGORY
C Cottrill, S Brooke, C Mulley, J Nelson, S Wright	Can multi-modal integration provide enhanced public transport service provision to address the needs of vulnerable populations?	Planning
P Basnak, R Giesen, J Muñoz	Technology choices in public transport planning: A classification framework	Planning
C Mulley, B Yen	Workshop 6 report: Better service delivery through modal integration	Planning
N Tiglao, J De Veyra, N Tolentino, M Tacderas	The perception of service quality among paratransit users in Metro Manila using structural equations modelling (SEM) approach	Planning
C Venter	Measuring the quality of the first/last mile connection to public transport	Planning
M Zhang, B Yen, C Mulley, N Sipe	How does an open system bus rapid transit (BRT) facilitate inter and intra-modal mobility? A visual analytic analysis of Brisbane, Australia	Planning
J Holmgren	The effect of public transport quality on car ownership – A source of wider benefits?	Planning
G Currie, N Fournier	Valuing public transport customer experience infrastructure—A review of methods & application	Planning
J Ha, S Lee, J Ko	Unraveling the impact of travel time, cost, and transit burdens on commute mode choice for different income and age groups	Planning
Z Xu, J Xie, X Liu, Y Nie	Hyperpath-based algorithms for the transit equilibrium assignment problem	Planning
A Shamshiripour, E Rahimi, A Mohammadian, J Auld	Investigating the influence of latent lifestyles on productive travels: Insights into designing autonomous transit system	Planning
S Bree, D Fuller, E Diab	Access to transit? Validating local transit accessibility measures using transit ridership	Planning
Z Ma, H Koutsopoulos, T Liu, A Basu	Behavioral response to promotion-based public transport demand management: Longitudinal analysis and implications for optimal promotion design	Planning
M Munizaga, A Gschwender, N Gallegos	Fare evasion correction for smartcard-based origin-destination matrices	Planning
T Saeidi, M Mesbah, M Habibian	Sequenced Ordered Logit Model Considering Latent Variables for Determining Trip Satisfaction of Metro Passengers	Planning
X Shi, Z Chen, M Pei, X Li	Variable-Capacity Operations with Modular Transits for Shared-Use Corridors	Planning
M Balac, S Hörl, K Axhausen	Fleet Sizing for Pooled (Automated) Vehicle Fleets	Planning
N Leng, Z Liao, F Corman	Role of Timetable, Rolling Stock Rescheduling, and Information Strategies to Passengers in Public Transport Disruptions	Planning
A Ziedan, C Brakewood	Longitudinal Analysis of Light Rail and Streetcar Safety in the United States	Planning
L Zhu, J Wang, V Garikapati, S Young	Decision Support Tool for Planning Neighborhood-Scale Deployment of Low-Speed Shared Automated Shuttles	Planning
M Saunders, L Nakashidze, A Lugovoi	New Low-Cost Transport Planning Method for Small and Medium-Sized Cities in Developing Countries	Planning
M Beck, D Hensher, E Wei	Slowly coming out of COVID-19 restrictions in Australia: Implications for working from home and commuting trips by car and public transport	Planning
I Tiznado-Aitken, K Lucas, J Muñoz, R Hurtubia	Understanding accessibility through public transport users' experiences: A mixed methods approach	Planning
I Ndiatya, M Booyen	Minibus taxis in Kampala's paratransit system: Operations, economics and efficiency	Planning
D Luo, O Cats, H van Lint	Can passenger flow distribution be estimated solely based on network properties in public transport systems?	Planning
M Siebert, D Ellenberger	Validation of automatic passenger counting: introducing the t-test-induced equivalence test	Planning
C Balbontin, D Hensher, C Ho, C Mulley	Do preferences for BRT and LRT change as a voter, citizen, tax payer, or self-interested resident?	Planning
A Gartsman, A Zimmer, J Osio-Norgaard, M Reginald	A conceptual framework for incorporating competitiveness into network-level transit quality metrics	Planning
J Chadha, O Shetty, S Shastri	Understanding the Impact of Bus Aggregators on Urban Mobility in India's National Capital Region	Planning



M Burke, L Dai, A Leung	Comparison of System Characteristics of the Guangzhou Water Transit System with Its International Peers	Planning
G Larue, A Naweed	Understanding Why Drivers Cross the Line at Activated Railway Crossings	Planning
S Belcher, T Belcher, E Greenwald, B Thomas	Is the Transit Industry Prepared for the Cyber Revolution? Policy Recommendations to Enhance Surface Transit Cyber Preparedness	Planning
C De Gruyter, G Currie	Valuing Public Transport Customer Amenities: International Transit Agency Practice	Planning
A Tirachini, O Cats	COVID-19 and Public Transportation: Current Assessment, Prospects, and Research Needs	Planning
W Han, J Zhao	Driver behaviour and traffic accident involvement among professional urban bus drivers in China	Planning
A Halvorsen, D Jefferson, T Stasko, A Reddy	Algorithm for Tracing Train Delays to Incident Causes	Planning
Y Zhao, L Ren, Z Ma, X Jiang	Novel Three-Stage Framework for Prioritizing and Selecting Feature Variables for Short-Term Metro Passenger Flow Prediction	Planning
J Qiu, D Logan, J Oxley, C Lowe	Application of a Hurdle Model with Random Effects to Explore the Relationship between Operational Characteristics and Safety Performance	Planning
I Sener, K Lee, C Durand, A Oluyomi, H Kohl III	Intention to use light-rail transit in Houston, Texas, United States: Findings from the travel-related activity in neighborhoods study	Planning
M Anik, S Sadeek, M Hossain, S Kabir	A framework for involving the young generation in transportation planning using social media and crowd sourcing	Planning
M Ulak, A Yazici, Y Zhang	Analyzing network-wide patterns of rail transit delays using Bayesian network learning	Planning
G Şahin, A Digeşsara, R Borndörfer, T Schlechte	Multi-period line planning with resource transfers	Planning
N Sanko	Activity-end access/egress modal choices between stations and campuses located on a hillside	Ridership
A Ababio-Donkor, W Saleh, A Fonzone	The role of personal norms in the choice of mode for commuting	Ridership
Anupriya, D Graham, D Hörcher, R Anderson, P Bansal	Quantifying the ex-post causal impact of differential pricing on commuter trip scheduling in Hong Kong	Ridership
B Li, E Yao, T Yamamoto, Y Tang, S Liu	Exploring behavioral heterogeneities of metro passenger's travel plan choice under unplanned service disruption with uncertainty	Ridership
P Bansal, Y Liu, R Daziano, S Samaranyake	Impact of discerning reliability preferences of riders on the demand for mobility-on-demand services	Ridership
M Hyland, F Dandl, K Bogenberger, H Mahmassani	Integrating demand forecasts into the operational strategies of shared automated vehicle mobility services: spatial resolution impacts	Ridership
W Zhu, W Fan, A Wahaballa, J Wei	Calibrating travel time thresholds with cluster analysis and AFC data for passenger reasonable route generation on an urban rail transit network	Ridership
R Grahn, C Harper, C Hendrickson, Z Qian, H Matthews	Socioeconomic and usage characteristics of transportation network company (TNC) riders	Ridership
J Cheng, R Yan, Y Gao	Exploring spatial heterogeneity in accessibility and transit mode choice	Ridership
X Kuai, F Wang	Global and localized neighborhood effects on public transit ridership in Baton Rouge, Louisiana	Ridership
L Li, D Kasraian, A Shalaby	Empirical Analysis of Long-Run Elasticities and Asymmetric Effects of Transit Demand Determinants	Ridership
D Ton, S Shelat, S Nijënstein, L Rijsman, N van Oort, S Hoogendoorn	Understanding the Role of Cycling to Urban Transit Stations through a Simultaneous Access Mode and Station Choice Model	Ridership
C Yu, H Li, X Xu, J Liu	Data-driven approach for solving the route choice problem with traveling backward behavior in congested metro systems	Ridership
H Hwang, M Lee	A simple makeover can increase bus ridership: The story of Tayo bus	Ridership
S He, J Thøgersen, Y Cheung, A Yu	Ageing in a transit-oriented city: Satisfaction with transport, social inclusion and wellbeing	Ridership
T Zijlstra, A Durand, S Hoogendoorn-Lanser, L Harms	Early adopters of Mobility-as-a-Service in the Netherlands	Ridership
T Shibayama	Competence distribution and policy implementation efficiency towards sustainable urban transport: A comparative study	Policy
W Yang, W Veeneman, M de Jong, Y Song	Integrated transport management: Lessons from a Chinese city	Policy

J Stanley, J Stanley	Workshop 7 report: Assessing the wider benefits of public transport projects	Policy
K Porath, P Galilea	Temporal analysis of fare evasion in Transantiago: A socio-political view	Policy
R Lajas, R Macário	Public policy framework supporting “mobility-as-a-service” implementation	Policy
R Liu, M Palm, A Shalaby, S Farber	A social equity lens on bus bridging and ride-hailing responses to unplanned subway disruptions	Policy
W Kębłowski	Why (not) abolish fares? Exploring the global geography of fare-free public transport	Policy
W Low, M Cao, J De Vos, R Hickman	The journey experience of visually impaired people on public transport in London	Policy
L Yang, X Chu, Z Gou, H Yang, Y Lu, W Huang	Accessibility and proximity effects of bus rapid transit on housing prices: Heterogeneity across price quantiles and space	Land use
Y Yamawaki, C Filho, G Costa	Mega-event transport legacy in a developing country: The case of Rio 2016 Olympic Games and its Transolímpica BRT corridor	Land use
T Li, J Dodson	Job growth, accessibility, and changing commuting burden of employment centres in Melbourne	Land use
Y Liu, D Yang, H Timmermans, B de Vries	The impact of the street-scale built environment on pedestrian metro station access/egress route choice	Land use
P Zhu, S Ho, Y Jiang, X Tan	Built environment, commuting behaviour and job accessibility in a rail-based dense urban context	Land use
Z Cao, Y Asakura, Z Tan	Coordination between node, place, and ridership: Comparing three transit operators in Tokyo	Land use
Q An, X Fu, D Huang, Q Cheng, Z Liu	Analysis of adding-runs strategy for peak-hour regular bus services	Operations
B Büchel, F Corman	Meaningful Modeling of Section Bus Running Times by Time Varying Mixture Distributions of Fixed Components	Operations
W Wu, P Li, R Liu, W Jin, B Yao, Y Xie, C Ma	Predicting peak load of bus routes with supply optimization and scaled Shepard interpolation: A newsvendor model	Operations
W Wey, C Kang, H Khan	Evaluating the effects of environmental factors and a transfer fare discount policy on the performance of an urban metro system	Operations
Y Zhu, R Goverde	Integrated timetable rescheduling and passenger reassignment during railway disruptions	Operations
C Ying, A Chow, K Chin	An actor-critic deep reinforcement learning approach for metro train scheduling with rolling stock circulation under stochastic demand	Operations
J Poon, R Vickerman	Workshop 8: Beyond the farebox: Sustainable funding of public transport by better understanding service values	Economics
S Sun, Y Wong, A Rau	Economic assessment of a Dynamic Autonomous Road Transit system for Singapore	Economics
K Ahn, H Jang, Y Song	Economic impacts of being close to subway networks: A case study of Korean metropolitan areas	Economics
D Zimny-Schmitt, A Goetz	An investigation of the performance of urban rail transit systems on the corridor level: A comparative analysis in the American west	Economics
S Borén	Electric buses’ sustainability effects, noise, energy use, and costs	Economics
L Liu, H Miller	Does real-time transit information reduce waiting time? An empirical analysis	Technology
S Lehmann, A Reddy, C Samsundar, T Huynh	Automated Train Identification and Train Position Monitoring at New York City Transit	Technology
Y Jung, J Casello	Assessment of the transit ridership prediction errors using AVL/APC data	Technology
Y Zhu	Estimating the activity types of transit travelers using smart card transaction data: a case study of Singapore	Technology
K Logan, J Nelson, B McLellan, A Hastings	Electric and hydrogen rail: Potential contribution to net zero in the UK	Technology
G Currie, N Fournier	Why most DRT/Micro-Transits fail – What the survivors tell us about progress	Mode
G Currie, T Wong	Workshop 4 report: Realising the potential benefits of demand-responsive travel	Mode
S Perera, C Ho, D Hensher	Resurgence of demand responsive transit services – Insights from BRIDJ trials in Inner West of Sydney, Australia	Mode
D Hensher, Y Wong, L Ho	Review of bus rapid transit and branded bus service network performance in Australia	Mode



D Ku, S Na, J Kim, S Lee	Interpretations of Downs–Thomson paradox with median bus lane operations	Infrastructure
S Pan, Y Liu, L Xie, X Wang, Y Yuan, X Jia	A thermal comfort field study on subway passengers during air-conditioning season in Beijing	Infrastructure
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