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The Australian Research Council Key Centre in Transport Management

Institute of Transport Studies, Monash University
World Transit Research

World Transit Research Newsletter

12-2021

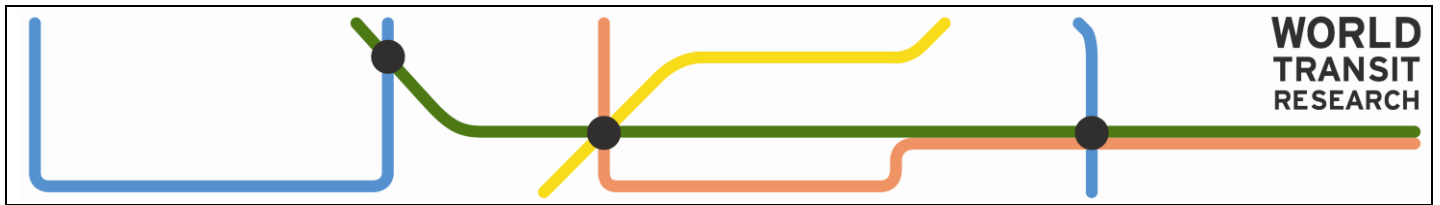
World Transit Research December 2021 Newsletter

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 8,737 research reports/papers. Some 101 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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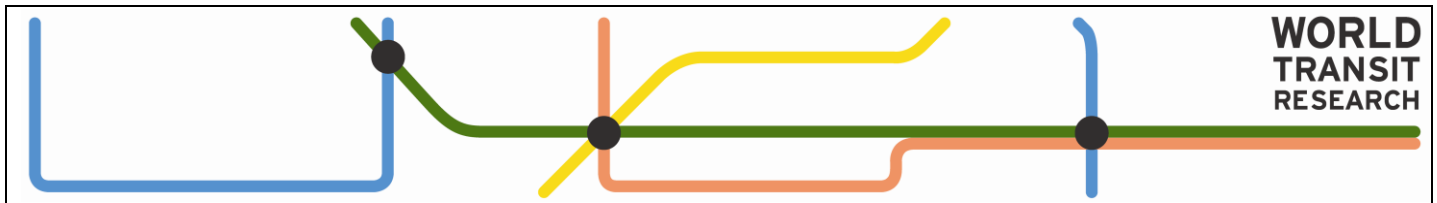
If you have any queries or suggestions on how to improve our publication, we would love to hear from you at: enquiries@worldtransitresearch.info

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WORLD TRANSIT RESEARCH – NEW RESEARCH PUBLICATIONS

AUTHOR	TITLE	CATEGORY
S Mohri, S Mortazavi, N Nassir	A clustering method for measuring accessibility and equity in public transportation service: Case study of Melbourne	Planning
A Ku, D Kammen, S Castellanos	A quantitative, equitable framework for urban transportation electrification: Oakland, California as a mobility model of climate justice	Planning
A Tønnesen, M Knapskog, T Uteng, K Øksenholt	The integration of active travel and public transport in Norwegian policy packages: A study on ‘access, egress and transfer’ and their positioning in two multilevel contractual agreements*	Planning
F Tinessa, F Pagliara, L Biggiero, G Veneri	Walkability, accessibility to metro stations and retail location choice: Some evidence from the case study of Naples	Planning
J de Oña, E Estévez, R de Oña	How does private vehicle users perceive the public transport service quality in large metropolitan areas? A European comparison*	Planning
K Liu, H Gao, Z Liang, M Zhao, C Li	Optimal charging strategy for large-scale electric buses considering resource constraints	Planning
N Huan, E Yao, J Zhang	Demand-responsive passenger flow control strategies for metro networks considering service fairness and passengers’ behavioural responses	Planning
M Eltved, N Breyer, J Ingvardson, O A Nielsen	Impacts of long-term service disruptions on passenger travel behaviour: A smart card analysis from the Greater Copenhagen area	Planning
R Luo, Y Fan, X Yang, J Zhao, S Zheng	The impact of social externality information on fostering sustainable travel mode choice: A behavioral experiment in Zhengzhou, China	Planning
S Song, M Diao, C Feng	Effects of pricing and infrastructure on car ownership: A pseudo-panel-based dynamic model	Planning
R Rafiq, M McNally	Heterogeneity in Activity-travel Patterns of Public Transit Users: An Application of Latent Class Analysis	Planning
M Sadeghi, I Aghayan, M Ghaznavi	A cuckoo search based approach to design sustainable transit network	Planning
F Jia, X Jiang, H Li, X Yu, X Xu, M Jiang	Passenger-oriented subway network capacity calculation and analysis based on simulation	Planning
E Diab, J DeWeese, N Chaloux, A El-Geneidy	Adjusting the service? Understanding the factors affecting bus ridership over time at the route level in Montréal, Canada	Planning
Q Tian, Y Lin, D Wang	Autonomous and conventional bus fleet optimization for fixed-route operations considering demand uncertainty	Planning
A Bondemark, H Andersson, A Wretstrand, K Brundell-Freij	Is it expensive to be poor? Public transport in Sweden	Planning
Q Shen, Y Wang, C Gifford	Exploring partnership between transit agency and shared mobility company: an incentive program for app-based carpooling	Planning
D Hörcher, D Graham	The Gini index of demand imbalances in public transport	Planning
J Kumagai, M Wakamatsu, S Managi	Do commuters adapt to in-vehicle crowding on trains?	Planning
J Bunker, F Hisham	Critical Station Practical Capacity on a Bus Rapid Transit Line with Nonstopping Buses	Planning
J Mageau-Béland, C Morency	Assessing Physical Activity Achievement by using Transit	Planning
S Hoover, J Porter, C Fuentes	Strategic Route Planning to Manage Transit’s Susceptibility to Disease Transmission	Planning
H Tan, N McNeil, J MacArthur, K Rodgers	Evaluation of a Transportation Incentive Program for Affordable Housing Residents	Planning
C Sipetas, E Gonzales	Continuous Approximation Model for Hybrid Flexible Transit Systems with Low Demand Density	Planning
C Gardner, S Nielsen, M Eltved, T Rasmussen, O Nielsen, B Nielsen	Calculating conditional passenger travel time distributions in mixed schedule- and frequency-based public transport networks using Markov chains	Planning
I Aslaksen, E Svanberg, K Fagerholt, L Johnsen, F Meisel	A combined dial-a-ride and fixed schedule ferry service for coastal cities	Planning
D Wang, M Tayarani, B He, J Gao, J Chow, H Gao, K Ozbay	Mobility in post-pandemic economic reopening under social distancing guidelines: Congestion, emissions, and contact exposure in public transit*	Planning
M Ahmadzadeh, M Shams	Passenger exposure to respiratory aerosols in a train cabin: Effects of window, injection source, output flow location*	Planning

N Zhang, D Graham, D Hörcher, P Bansal	A causal inference approach to measure the vulnerability of urban metro systems	Planning
H Tan, D Soh, Y Soh, M Ramli	Derivation of train arrival timings through correlations from individual passenger farecard data	Planning
J Davidson, I Feiglin, M Ryerson	Spatially-oriented data, methods, and models to plan transit for reverse commuters	Planning
L Yumagulova, I Vertinsky	Managing trade-offs between specific and general resilience: Insights from Canada's Metro Vancouver region	Planning
S Maynard, K Miller, A Filtness	Keeping the service running: Examining working relationships and workload of London bus network iBus controllers*	Planning
O Cats, N Birch	Multi-modal network evolution in polycentric regions*	Planning
S Yu, G Liu, C Yin	Understanding spatial-temporal travel demand of free-floating bike sharing connecting with metro stations	Ridership
I Mariotti, C Burlando, S Landi	Is Local Public Transport unsuitable for elderly? Exploring the cases of two Italian cities	Ridership
K Wang, Y Liu, S Mashrur, P Loa, K Habib	COVID-19 influenced households' Interrupted Travel Schedules (COVHITS) survey: Lessons from the fall 2020 cycle*	Ridership
S Choi, J Ko, D Kim	Investigating commuters' satisfaction with public transit: A latent class modeling approach	Ridership
K Vo, W Lam, Z Li	A mixed-equilibrium model of individual and household activity-travel choices in multimodal transportation networks	Ridership
C Li, L Bai, W Liu, L Yao, S Waller	A multi-task memory network with knowledge adaptation for multimodal demand forecasting	Ridership
S Sun, L Xu, Y Yao, Z Duan	Investigating the determinants to retain spurious-loyalty passengers: A data-fusion based approach	Ridership
F Monsuur, M Enoch, M Quddus, S Meek	Modelling the impact of rail delays on passenger satisfaction*	Ridership
A Schouten, B Taylor, E Blumenberg	Who's on Board? Examining the Changing Characteristics of Transit Riders using Latent Profile Analysis	Ridership
A Malokin, G Circella, P Mokhtarian	Do millennials value travel time differently because of productive multitasking? A revealed-preference study of Northern California commuters*	Ridership
X Fu	How habit moderates the commute mode decision process: integration of the theory of planned behavior and latent class choice model	Ridership
N Wexler, G Ryan, K Das, Y Fan	Free Transit Passes and School Attendance among High School Students	Ridership
E Swarney, J Terry, D Feng, C Bachmann	Longitudinal Analysis of Transit-Integrated Ridesourcing Users and Their Trips	Ridership
H Wallén Warner, G Björklund, J Andersson	Using a three-stage model of change to understand people's use of bicycle, public transport, and car*	Ridership
G Currie, T Jain, L Aston	Evidence of a post-COVID change in travel behaviour – Self-reported expectations of commuting in Melbourne*	Ridership
K Schaefer, L Tuitjer, M Levin-Keitel	Transport disrupted – Substituting public transport by bike or car under Covid 19*	Ridership
Z Gan, M Yang, Q Zeng, H Timmermans	Associations between built environment, perceived walkability/bikeability and metro transfer patterns	Ridership
A Ziedan, W Darling, C Brakewood, G Erhardt, K Watkins	The impacts of shared e-scooters on bus ridership	Ridership
S Nello-Deakin, M Brömmelstroet	Scaling up cycling or replacing driving? Triggers and trajectories of bike-train uptake in the Randstad area*	Ridership
T Ma, V Van Acker, S Lord, P Gerber	Dissonance and commute satisfaction: Which reference point to use?*	Ridership
S Nasrin, J Bunker	Analyzing significant variables for choosing different modes by female travelers*	Ridership
H Bi, Z Ye, L Hu, H Zhu	Why they don't choose bus service? Understanding special online car-hailing behavior near bus stops	Ridership
H Charreire, C Roda, T Feuillet, A Piombini, H Bardos, H Rutter, S Compennolle, J Mackenbach, J Lakerveld, J Opper,	Walking, cycling, and public transport for commuting and non-commuting travels across 5 European urban regions: Modal choice correlates and motivations	Ridership
S Kim, S Lee, E Ko, K Jang, J Yeo	Changes in car and bus usage amid the COVID-19 pandemic: Relationship with land use and land price*	Ridership



J Allen, S Farber, S Greaves, G Clifton, H Wu, S Sarkar, D Levinson	Immigrant settlement patterns, transit accessibility, and transit use	Ridership
W Qiu, H Chang	The interplay between dockless bikeshare and bus for small-size cities in the US: A case study of Ithaca	Ridership
M Beck, D Hensher, J Nelson	Public transport trends in Australia during the COVID-19 pandemic: An investigation of the influence of bio-security concerns on trip behaviour*	Ridership
K Park, A Farb, S Chen	First-/last-mile experience matters: The influence of the built environment on satisfaction and loyalty among public transit riders	Land use
K Kim, K Kwon, M Horner	Examining the Effects of the Built Environment on Travel Mode Choice across Different Age Groups in Seoul using a Random Forest Method	Land use
L Meng, R Li, M Taylor, D Scrafton	Residents' choices and preferences regarding transit-oriented housing	Land use
J Zhai, W Wu, Y Yun, B Jia, Y Sun, Q Wang	Travel satisfaction and rail accessibility	Land use
J Kim, X Li	Building more housing near transit: A spatial analysis of residential densification dynamics	Land use
Y Hu, J Cao, J Liu	Influence of bus stop land use characteristics on passenger waiting time satisfaction - A case study in Guangzhou	Land use
G Eldeeb, M Mohamed, A Páez	Built for active travel? Investigating the contextual effects of the built environment on transportation mode choice	Land use
F Rao, E Pafka	Shopping morphologies of urban transit station areas: A comparative study of central city station catchments in Toronto, San Francisco, and Melbourne*	Land use
D Crotti, E Maggi, E Pantelaki, F Rossi	Public transport use and health status in later life: Which relationship?	Policy
J Arellana, D Oviedo, L Guzman, V Alvarez	Urban transport planning and access inequalities: A tale of two Colombian cities	Policy
Q Liu, C Chen, M Cao	Exploring the relationship between the commuting experience and hedonic and eudaimonic well-being	Policy
N Fournier	Hybrid pedestrian and transit priority zoning policies in an urban street network: Evaluating network traffic flow impacts with analytical approximation	Policy
G Ramakrishnan, K Srinivasan, A Mondal, C Bhat	Joint Model of Sustainable Mode Choice for Commute, Shift Potential and Alternative Mode Chosen	Policy
W Darling, E Carpenter, T Johnson-Praino, C Brakewood, C Voulgaris	Comparison of Reduced-Fare Programs for Low-Income Transit Riders	Policy
V Barros, C Cruz, T Júdice, J Sarmento	Is taxation being effectively used to promote public transport in Europe?	Policy
A Aboudina, E Diab, A Shalaby	Predictive Analytics of Streetcar Bunching Occurrence Time for Real-Time Applications	Technology
S Hu, Q Liang, H Qian, J Weng, W Zhou, P Lin	Frequent-pattern growth algorithm based association rule mining method of public transport travel stability	Technology
W Yuan, H Frey	Multi-scale evaluation of diesel commuter rail fuel use, emissions, and eco-driving	Technology
H Badia, E Jenelius	Design and operation of feeder systems in the era of automated and electric buses*	Technology
A Caspari, D Wood, A Campbell, D Jefferson, T Huynh, A Reddy	Using Real-Time Data to Detect Delays and Improve Customer Communications at New York City Transit	Technology
C Pieroni, M Giannotti, B Alves, R Arbex	Big data for big issues: Revealing travel patterns of low-income population based on smart card data mining in a global south unequal city	Technology
G Larue, A Naweed	Evaluating the effects of automated monitoring on driver non-compliance at active railway level crossings	Technology
L Zhang, S Wang, X Qu	Optimal electric bus fleet scheduling considering battery degradation and non-linear charging profile*	Infrastructure
H Manivasakan, R Kalra, S O'Hern, Y Fang, Y Xi, N Zheng	Infrastructure requirement for autonomous vehicle integration for future urban and suburban roads – Current practice and a case study of Melbourne, Australia	Infrastructure
J Lee, H Shon, I Papakonstantinou, S Son	Optimal fleet, battery, and charging infrastructure planning for reliable electric bus operations	Infrastructure
X Liu, X Qu, X Ma	Optimizing electric bus charging infrastructure considering power matching and seasonality	Infrastructure
Y Hsu, S Yan, P Huang	The depot and charging facility location problem for electrifying urban bus services	Infrastructure

O Jonkeren, R Kager	Bicycle parking at train stations in the Netherlands: Travellers' behaviour and policy options	Mode
L Yang, S Eom, T Suzuki	Measuring railway network performance considering accessibility levels in cities worldwide	Mode
M Niedzielski	Grocery store accessibility: Different metrics – Different modal disparity results and spatial patterns*	Mode
Y Wang, K Zhao, A D'Ariano, R Niu, S Li, X Luan	Real-time integrated train rescheduling and rolling stock circulation planning for a metro line under disruptions	Operations
R van Lieshout, P Bouman, M van den Akker, D Huisman	A self-organizing policy for vehicle dispatching in public transit systems with multiple lines*	Operations
D Kahali, R Rastogi	Comparative analysis of escalator capacity at metro stations: theory versus practice	Operations
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T Rye, R Hrelja, J Monios, C McTigue	Partnership or franchising to improve bus services in two major English urban regions? An institutional analysis*	Organisation
G Sciarra, M Rahman, R Walthall	A seat at the table? Transit representation in U.S. metropolitan planning	Organisation
F Zhang, W Liu	An economic analysis of integrating bike sharing service with metro systems	Economics
Ş Tercan	Second-hand renovated trams as a novel decision strategy for public transport investment	Economics
D Rambaldini-Gooding, L Molloy, A Parrish, M Strahilevitz, R Clarke, J Dubrau, P Perez	Exploring the impact of public transport including free and subsidised on the physical, mental and social well-being of older adults: a literature review*	Literature review
R Kuipers, C Palmqvist, N Olsson, L Hiselius	The passenger's influence on dwell times at station platforms: a literature review*	Literature review

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