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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

4-2024

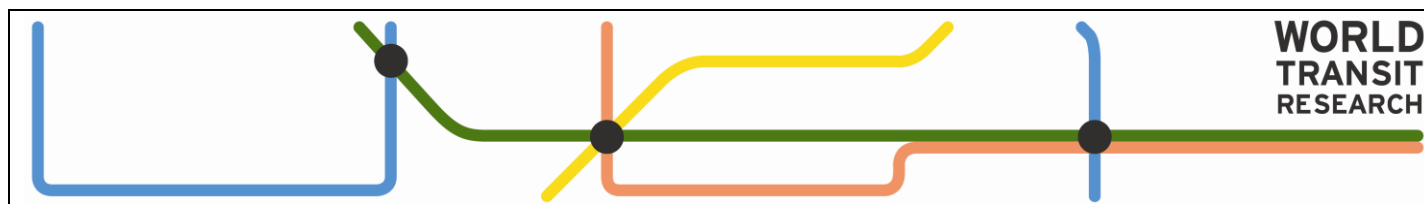
World Transit Research April 2024 Newsletter

Institute of Transport Studies Monash University

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World Transit Research

April 2024 Newsletter

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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 10,088 research reports/papers. Some 104 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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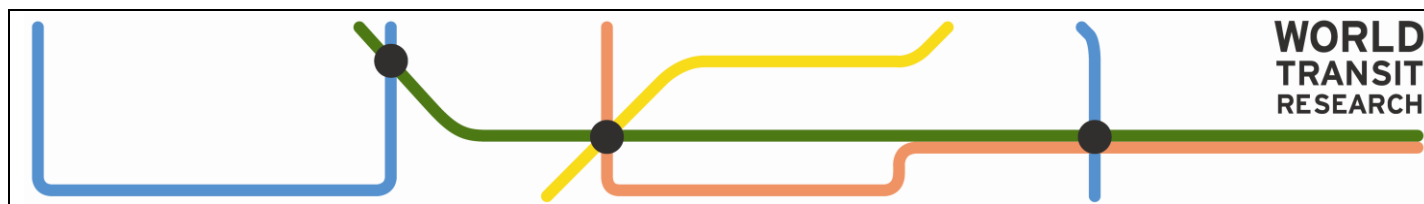
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SUGGESTIONS WELCOMED

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

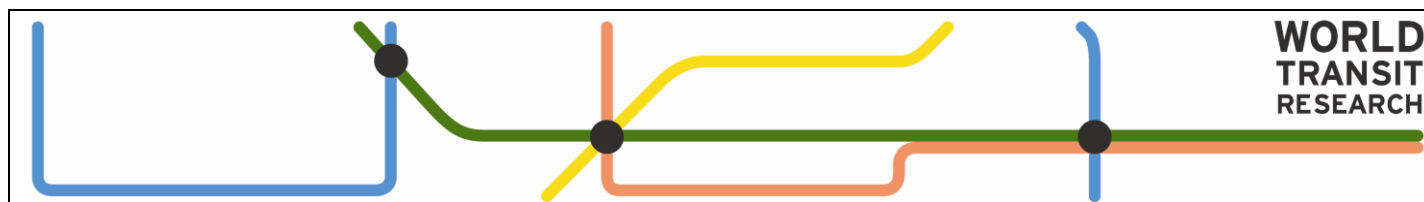
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Wendy Walker
Research Clearing House Manager
Monash University, Australia
enquiries@worldtransitresearch.info
PH +61 4 4733 9771

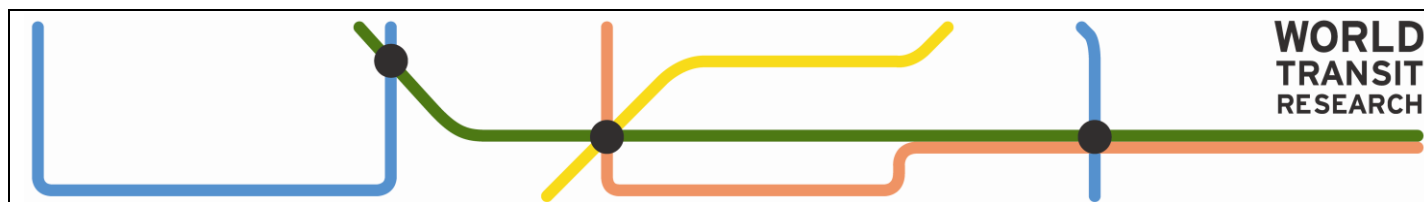


WORLD TRANSIT RESEARCH – NEW RESEARCH PUBLICATIONS

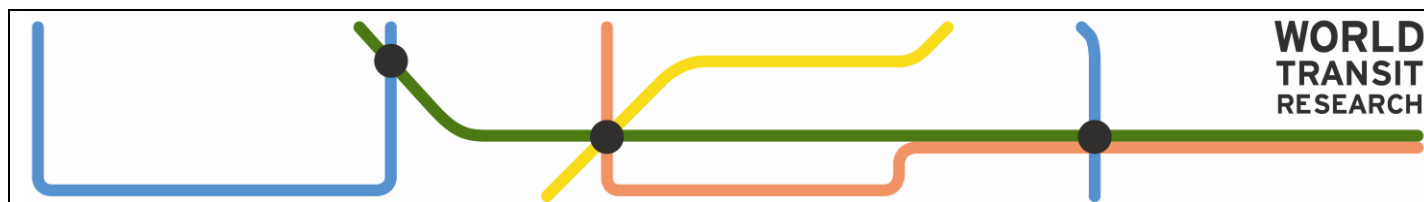
AUTHOR	TITLE	CATEGORY
X Li, Y Li, W Liu, Y Yuan	Optimal design of pure battery electric bus system on the grid network	Planning
H Zhang, S Liang, S He, P Yuan, J Zhao	Two-stage control for transfer synchronisation and regularity of subsequent bus line service	Planning
S Homer, E Berezina, S Chaouche, C Gill	Co-designing urban transport solutions with Southeast Asian young adults	Planning
F Pagliara, M Aria, A Castelluccio, M Tartaglia, L D'Aniello	Planning the future of rail in the post-COVID era	Planning
J Ma, C Zheng, M Yu, J Shen, H Zhang, Y Wang	The analysis of spatio-temporal characteristics and determinants of dockless bike-sharing and metro integration	Planning
J Cua, L Wan	Modeling emission reduction benefits of the premium point-to-point bus service in Metropolitan Manila, Philippines – a scenario analysis*	Planning
C Tang, Y Ge, H Xue, A Ceder, X Wang	Optimal selection of vehicle types for an electric bus route with shifting departure times	Planning
E Gebremeskel, B Woldetensae, M Woldeamanuel	Travel mode preference in Addis Ababa, Ethiopia: empirical observations*	Planning
A Shaban, S Sattar	Mobility and transport infrastructure in Mumbai Metropolitan Region: growth, exclusion and modal choices*	Planning
M Johari, S Jiang, M Keyvan-Ekbatani, D Ngoduy	Mode differentiation in partitioning of mixed bi-modal urban networks	Planning
Z Xu, C Zhang, S Chopra	Robustness assessment of public bus transit system with a response-integrated approach for a resilient public transport system in Hong Kong	Planning
Q Liu, J Chow	A congested schedule-based dynamic transit passenger flow estimator using stop count data	Planning
R Yang, B Han, Q Zhang, Z Han, Y Long	Integrated optimization of train route plan and timetable with dynamic demand for the urban rail transit line	Planning
Q Zhu, Y Bai, L Yang, Y Chen, D Yan	Collaborative optimization of rescue operation and timetable rescheduling under metro train failure	Planning
J Zhang, K Wada, T Oguchi	Morning commute in congested urban rail transit system: a macroscopic model for equilibrium distribution of passenger arrivals	Planning
S Ye, Q Chen, Y Tang	Anger Expressions of Bus Drivers and Passengers during Conflicts on the Bus	Planning
Z Boutarfa, M Gok	Multimodal Public Transit Network Design Method Based on Hub-and-Spoke Infrastructure	Planning
D Hall, J Linogao, L Zentz, G Shaw, T Lamb, C Simms	Detailed Analysis of New York City Subway Pedestrian Incidents From 2019*	Planning
A Loukaitou-Sideris, M Brozen, M Pinski, H Ding	Documenting #MeToo in Public Transportation: Sexual Harassment Experiences of University Students in Los Angeles	Planning
L Hu, S Sun	Integrating transit and TNC services to improve job accessibility: Scenario analysis with an equity lens	Planning
Y Suzuki, S Hino, T Kanno, D Amemiya	A study on the possibility of a BUS route network with connections based on an analysis of the efficiency of the BUS route network and resistance OF BUS users to transfer	Planning
L Mokoma, C Venter	Pathways to integrating paratransit and formal public transport: Case studies from Tshwane, South Africa	Planning
L Castagna, A Lobo, P Coppola, A Couto	Benchmarking the efficiency of European metros from a production perspective*	Planning
A Haseeb, R Mitra	Do environmentally sustainable travel behaviours contribute to transportation-related social exclusion?	Planning
J Fredin-Knutzén, G Hadlaczy, A Wigren, M Sokolowski	A pilot study evaluating the preventive effects of platform-end lengthwise fencing on trespassing, person struck by train and traffic delays*	Planning
A Vivek, S Mohapatra	An observational study on pedestrian and bicyclist violations at railroad grade crossings: Exploring the impact of geometrical and operational attributes	Planning
A Rehman, S Nawaz, S Alvi	Is it the behavior and actions of people that determine sustainable urban communities?	Planning
M Dorosan, D Dailisan, J Valenzuela, C Monterola	Use of machine learning in understanding transport dynamics of land use and public transportation in a developing city*	Planning



T Callari, L Moody, M Mortimer, H Stefan, B Horan, S Birrell	“Braking bad”: The influence of haptic feedback and tram driver experience on emergency braking performance*	Planning
J Zhang, F Liu, Z Chen, Z Yu, X Xiao, L Shi, Z Guo	A multi-level analysis on the causes of train-pedestrian collisions in Southwest China 2011–2020	Planning
C Lee	Train stations and house prices: a local perspective	Land use
A Ibraeva, G Correia, C Silva, A Antunes	Impacts of transit-oriented development on car use over a 10-year period in Porto, Portugal: From macro- to micro-analysis	Land use
J Allansson, F Pettersson-Löfstedt, R Hrelja	Collaborative challenges and barriers when planning and implementing Bus Rapid Transit (BRT). Lessons from Swedish BRT projects*	Land use
J Ortega, S Moslem	Decision support system for evaluating park & ride system using the analytic hierarchy process (AHP) method*	Land use
S Müller	A qualitative exploration of actors’ power resources and relations in Swiss transit station district planning	Land use
M Ellis-Young, B Doucet	From “Big Small Town” to “Small Big City”: Resident Experiences of Gentrification along Waterloo Region’s LRT Corridor*	Land use
Q Baker	Inclusion and Exclusion in Establishing the Delmar Loop Transit-Oriented Development Site	Land use
C Olwert, C Wang, V Arellano, D Oulrey	Retailer Behavior Near Fixed Transit Lines in Los Angeles: A Spatial Autoregressive Probit Model to Evaluate Retail Clustering	Land use
S Mathur	Impact of Heavy-rail-based Rapid Transit on House Prices: Evidence from the Fremont, CA, Warm Springs BART Extension Project	Land use
R Acuña	End of the line: The impact of new suburban rail stations on housing prices	Land use
J Wei, Y Chen, Z Liu, Y Wang	Correlation between the built environment and dockless bike-sharing trips connecting to urban metro stations	Land use
C Pilgram, S West	Transit station area walkability: Identifying impediments to walking using scalable, recomputable land-use measures	Land use
B Saeed, H Iseki	Does rail transit access affect firm dynamics? Analysis of firm births and closures in Maryland, USA	Land use
X Liu, X Chen, M Tian, J De Vos	Effects of buffer size on associations between the built environment and metro ridership: A machine learning-based sensitive analysis	Land use
M Li, M Kwan, W Hu, R Li, J Wang	Examining the effects of station-level factors on metro ridership using multiscale geographically weighted regression	Land use
C Goode	TOD in regional urban growth boundaries (UGBs): A case of transit adjacent development or a strategic housing solution?*	Land use
H Khosravi, M Abrishami, M Mehrian, B Chamberlain	The positive impact of transit-oriented-development characteristics on Metro Station usage: A case study of Tehran's metro stations and TOD index calculation	Land use
J Kaniewska, R Ewing, S Sabouri, H Ameli	Is transit-oriented development affordable for low- and moderate-income households?	Land use
Y Huang, D Parker, R Babin, F Kong	Causal identification of transit-induced property value uplift in Canada's Waterloo Region: A spatio-temporal difference-in-differences method application	Land use
W Li, H Zhong, M Boarnet	Effects of new transit lines on commuting: Evidence from restricted-use Census Bureau microdata	Land use
S Zhang, Y Wang, Z Liu, J Huang	Effects of built environment on metro ridership at a microscopic scale: a case study of Xi'an, China	Ridership
S Liu, T Yamamoto, T Nakamura	Longitudinal analysis of public transport usage by older people using a latent Markov model	Ridership
K Kwon, G Akar	What determines modal substitution between bike-sharing and public transit? Evidence from Columbus, Ohio during the COVID-19 pandemic	Ridership
K Agyemang, P Odame, R Amoako-Sakyi, E Mensah, A Abane	Perception of commuter rail transit riders/users of train services on the Accra-Nsawam Corridor*	Ridership
T Moges, A Mitiku	Impact of COVID-19 pandemic on the people’s choice of urban public transportation modes and mobility in Addis Ababa and Hawassa city, Ethiopia*	Ridership
E Chen, Q Luo, J Chen, Y He	Understanding passenger travel choice behaviours under train delays in urban rail transits: a data-driven approach	Ridership
J Yun, S Jeong, J Kong, J Chung	Investigation of the Policy Effect of High-Speed Metropolitan Rail Service in Seoul Through Latent Class Modeling Analysis of Stated Preference Survey	Ridership



L Pan, E Waygood, Z Patterson	Public Transit Itinerary Choice Analysis Considering Various Incentives	Ridership
J Orrego-Oñate, K Clifton, R Hurtubia	Heterogeneity in mode choice behavior: A spatial latent class approach based on accessibility measures	Ridership
J Myftiu, C Gigliarano, E Maggi, A Scagni	University commuting during the COVID-19 pandemic: Changes in travel behaviour and mode preferences*	Ridership
L de Oliveira, C Isler, G Balieiro, T Carvalho, M Littig	Bus Line Shift Behaviour: Evidence of Influential Factors based on Smart Card Data*	Ridership
C Chen, J Sih	How job stressors and economic stressors impact public transport drivers' performance and well-being under the health risk of the COVID-19 pandemic*	Ridership
L Yue, M Niedzielski, M O'Kelly	Modal disparity in commuting efficiency: A comparison across educational worker subgroups in Shanghai*	Ridership
J Huang, M Xiong, J Wang, L Cheng, H Yang	Investigating socio-spatial differentiation for metro travelers using smart card data: Older people vs. others*	Ridership
Y Jiao, X Wang, X Zhao, D Hurwitz	Effects of insomnia on risky driving behavior among bus drivers: The mediating effect of mental health	Ridership
H Zheng, H Sun, L Kang, J Wu, X Guo	Electric bus scheduling with the self-adaptive charging strategy based on a course selection idea	Operations
C Zhu, H Sun, X Guo, J Wu, S Zhu	Designing boarding limit strategy by considering stop-level fairness amid the COVID-19 outbreak	Operations
C Tang, J Liu, A Ceder, Y Jiang	Optimisation of a new hybrid transit service with modular autonomous vehicles	Operations
M Girma	Analysis of the operational and financial performance of the Addis Ababa municipality-owned public bus transport services*	Operations
M Li, J Tang, J Zeng, H Huang	A Kriging-based optimization method for meeting point locations to enhance flex-route transit services	Operations
M Artan, İ Şahin	A stochastic model for reliability analysis of periodic train timetables	Operations
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Y Chen, C Shi, C Claudel, M Hu	First train timetable synchronization with interval trains in subway networks	Operations
A Ermagun, N Tajik, F Janatabadi, H Mahmassani	Uncertainty in vulnerability of metro transit networks: A global perspective	Operations
C Buire, A Marzuoli, D Delahaye, M Mongeau	Air-rail timetable synchronisation: Improving passenger connections in Europe within and across transportation modes	Operations
X Zhang, Z Dong, F Huangfu, Y Ye, G Strbac, C Kang	Strategic dispatch of electric buses for resilience enhancement of urban energy systems	Operations
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F Faghihinejad, M Zoghifard, A Amiri, S Monajem	Evaluating Social and Spatial Equity in Public Transport: A Case Study	Policy
F Zinia, P Bhandari, J Tuffour, A Hong	Evaluating Social Equity of Transit Accessibility: A Case of Salt Lake County, U.S.	Policy
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R Bhatnagar, S Ram, R Vardhan	A study of influence zone for railway stations of different hierarchy in the Indian Railways: analyzing passenger travel patterns*	Infrastructure
X Zhang, Z He, Y Zhu, L You	DRL-based adaptive signal control for bus priority service under connected vehicle environment	Infrastructure
J Choi, J Maisel, B Perez, V Paquet	Video Observations and Large Accessible Transit Vehicle Operator Evaluations of Two Wheelchair Securement Systems	Infrastructure
M Bagdatli, F Ipek	Sustainability Impact of Bus Priority Treatments in Small-Scale Cities	Infrastructure



J Hu, W Wen, C Zhang, C Zhai, S Pei, Z Wang	Rapid peak seismic response prediction of two-story and three-span subway stations using deep learning method	Infrastructure
J Kim, J Park, J Lee, K Jang	Examining the socio-spatial patterns of bus shelters with deep learning analysis of street-view images: A case study of 20 cities in the U.S.	Infrastructure
M Lizana, C Choudhury, D Watling	Analysing the impacts of individual-level factors on public transport usage during the COVID-19 pandemic: a comprehensive literature review and meta-analysis*	Literature review
Z Zarabi, E Waygood, T Schwanen	Understanding travel mode choice through the lens of COVID-19: a systematic review of pandemic commuters*	Literature review
A Delbosc, J Kent	Employee intentions and employer expectations: a mixed-methods systematic review of “post-COVID” intentions to work from home*	Literature review
O Cats	Identifying human mobility patterns using smart card data*	Literature review
A Arevalo, R Gerike	Sustainability evaluation methods for public transport with a focus on Latin American cities: A literature review*	Literature review
H Chen, H Ho, L Wu, I Lee, H Chou	Two-stage procedure for transportation mode detection based on sighting data	Technology
Z Chen, S Li, H Zhang, Y Wang, L Yang	Distributed model predictive control for real-time train regulation of metro line based on Dantzig-Wolfe decomposition	Technology
W Jiang, N Zheng, I Kim	Missing data imputation for transfer passenger flow identified from in-station WiFi systems	Technology
J Zhao, Z Li, P Liu	Using traffic data to identify land-use characteristics based on ensemble learning approaches	Technology
W Shang, Y Chen, Q Yu, X Song, Y Chen, X Ma, X Chen, Z Tan, J Huang, W Ochieng	Spatio-temporal analysis of carbon footprints for urban public transport systems based on smart card data	Technology
J Beaudoin, J Tyndall	The effect of bus rapid transit on local home prices	Economics
K Say, F Brown, Z Cserekyei	The economics of public transport electrification: When does infrastructure investment matter?*	Economics
Z Zhu, R Xu, F Wang, P Vansteenwegen	Scheduling method for pairing night-shift and morning-shift duties on metro lines with complex structure	Organisation
T Durant, M Monney, M Johnson, K Osei, J de Tejada, H Schalekamp, A Tarawally	Re-evaluating roles and relationships between city authorities and informal public transport operators in sub-saharan africa: A comparative analysis of five cities*	Organisation
Q Liang, W Luo, Y Zhou, Z Lu, J Li, Z He	Vibration filtering effect of a novel three-dimensional isolation bearing on metro vibration isolation	Mode

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