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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

4-2023

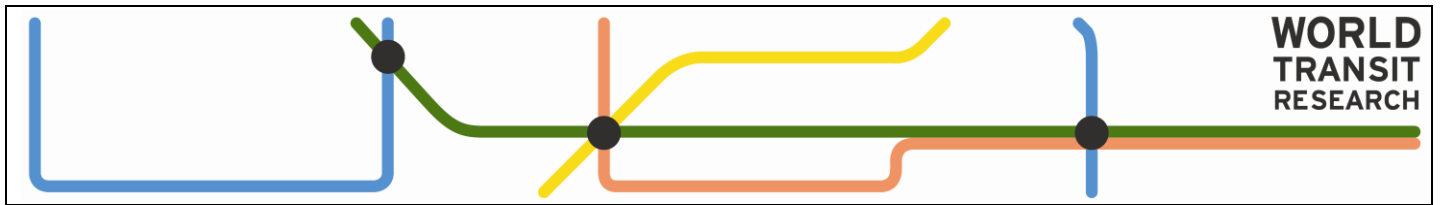
World Transit Research April 2023 Newsletter

Institute of Transport Studies Monash University

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World Transit Research

April 2023 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.

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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 9,487 research reports/papers. Some 99 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

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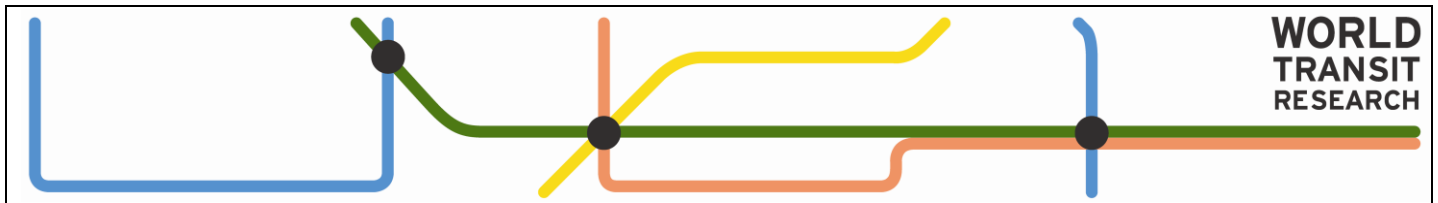
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WORLD TRANSIT RESEARCH – NEW RESEARCH PUBLICATIONS

AUTHOR	TITLE	CATEGORY
C Schimkowsky	Managing passenger etiquette in Tokyo: between social control and customer service*	Planning
P Loa, S Mashrur, K Habib	What influences the substitution of ride-sourcing for public transit and taxi services in Toronto? An exploratory structural equation model-based study	Planning
R Mahmoudi, S Shetab-Boushehri, A Emrouznejad	Sustainability in the evaluation of bus rapid transportation projects considering both managers and passengers perspectives: A triple-level efficiency evaluation approach	Planning
L Karjalainen, M Tiitu, J Lyytimäki, V Helminen, P Tapio, A Tuominen, T Vasankari, J Lehtimäki, R Paloniemi	Going carless in different urban fabrics: socio-demographics of household car ownership*	Planning
X Fu, Y Wu, D Huang, J Wu	An activity-based model for transit network design and activity location planning in a three-party game framework	Planning
Y Yuan, S Li, L Yang, Z Gao	Real-time optimization of train regulation and passenger flow control for urban rail transit network under frequent disturbances	Planning
M Du, J Zhou, A Chen, H Tan	Modeling the capacity of multimodal and intermodal urban transportation networks that incorporate emerging travel modes	Planning
M Ameli, J Lebacque, L Leclercq	Evolution of multimodal final user equilibrium considering public transport network design history	Planning
Y Shen, G Ren, B Ran	Analysis of cascading failure induced by load fluctuation and robust station capacity assignment for metros	Planning
S Luo, L Kang	A bimodal transit system for large cities: cost efficiency and environment friendliness	Planning
Y Jiang	Reliability-based equitable transit frequency design	Planning
K Gkiotsalitis, O Cats	Optimal frequency setting of metro services in the age of COVID-19 distancing measures*	Planning
F Meng, L Yang, J Shi, Z Jiang, Z Gao	Collaborative passenger flow control for oversaturated metro lines: a stochastic optimization method	Planning
K Topel	Do U.S. Rail Safety Statistics Undercount Suicides?	Planning
W Klumpenhouwer, A Shalaby	Using Delay Logs and Machine Learning to Support Passenger Railway Operations*	Planning
E Bia, N Ferenchak	Impact of Bus Rapid Transit Construction and Infrastructure on Traffic Safety: A Case Study From Albuquerque, New Mexico	Planning
H Pan, Y Liu, Z Liu, H Hu	Passenger Inflow Control Along Rail Corridor for Recurrent Heavy Passenger Flow Mitigation	Planning
B Emami, Y Song, A Khani	Prioritizing Bus Routes for Electrification: GIS-Based Multi-Criteria Analysis Considering Operational, Environmental, and Social Benefits and Costs	Planning
J Bunker	Probabilistic Modeling of Bus Rapid Transit Station Loading Area Selection for Bus Capacity Estimation	Planning
L Pan, E Waygood, Z Patterson	Would You Wait? Bus Choice Behavior Analysis Considering Various Incentives	Planning
S Hoover, A Kost, J Porter	Using General Transit Feed Specification-Ride to Identify Riders' Use of Transfer Opportunities	Planning
Y Li, M Zhang	Generational Patterns of Modal Shares Across Megaregions	Planning
M Girma	Evaluating service performance of public bus transit service: a case study of Addis Ababa, Ethiopia*	Planning
M Girma, B Woldetensae, G Nuriye, T Lika	Importance performance analysis for evaluating city bus service quality in Addis Ababa, Ethiopia*	Planning
A Oakil, A Anwar, A Alhussaini, N Hosain, A Muhsen, A Arora	Urban transport energy demand model for Riyadh: methodology and a preliminary analysis*	Planning
D Kacharo, E Teshome, T Woltamo	Safety and security of women and girls in public transport*	Planning
L Cheng, J Huang, T Jin, W Chen, A Li, F Witlox	Comparison of station-based and free-floating bikeshare systems as feeder modes to the metro	Planning
S Joshi, A Bailey	What happens next? Exploring women's transport motility through the story completion method*	Planning

B Klar, J Lee, J Long, E Diab	The impacts of accessibility measure choice on public transit project evaluation: A comparative study of cumulative, gravity-based, and hybrid approaches	Planning
A Weustenenk, G Mingardo	Towards a typology of mobility hubs*	Planning
A Cooper, F Mazzeo, P Waterson, M Young, D Louis	The use of Bayesian Belief Networks (BBNs) to probe deeper into railway safety management systems – Two studies from Great Britain and Italy	Planning
Y Dong, W Zheng, X Cao, X Sun, Z He	Co-planning of hydrogen-based microgrids and fuel-cell bus operation centers under low-carbon and resilience considerations	Planning
L Betti, M Garcia, E Siqueira, H Evers	ImpactAr Tool: Valuing Air Quality Health Impacts of Urban Bus Fleet Changes in Brazil*	Planning
K De-Toledo, S O'Hern, S Koppel	A city-level transport vision for 2050: Reimagined since COVID-19	Planning
S Moslem, Ž Stević, I Tanackov, F Pilla	Sustainable development solutions of public transportation: An integrated IMF SWARA and Fuzzy Bonferroni operator*	Planning
Y Huang, Z Li, S Zhang, B Zhou, L Zhang	Optimal headway-based bus dispatching strategy under the influence of epidemic outbreaks*	Planning
S Zheng, Y Chen, Y Zhou, J Guo	Influence of link-addition strategies on network balance and passenger experience in rail networks	Planning
Y Huang, L Gao	Influence mechanism of commuter's low-carbon literacy on the intention of mode choice: a case study in Shanghai, China	Ridership
M Manville, B Taylor, E Blumenberg, A Schouten	Vehicle access and falling transit ridership: evidence from Southern California	Ridership
J Zhang, T Feng, H Timmermans, Z Lin	Improved imputation of rule sets in class association rule modeling: application to transportation mode choice	Ridership
L McCarthy, A Delbosc, M Kroesen, M de Haas	Travel attitudes or behaviours: Which one changes when they conflict?*	Ridership
Z Li, D Hensher, J Zeng	Travel choice behaviour under uncertainty in real-market settings: A source-dependent utility approach	Ridership
Y Wang, W Zhang, T Tang, D Wang, Z Liu	Bus OD matrix reconstruction based on clustering Wi-Fi probe data	Ridership
U Berggren, T Kjær-Rasmussen, M Thorhauge, H Svensson, K Brundell-Freij	Public transport path choice estimation based on trip data from dedicated smartphone app survey*	Ridership
P de Nailly, E Côme, A Samé, L Oukhellou, J Ferriere, Y Merad-Boudia	What can we learn from 9 years of ticketing data at a major transport hub? A structural time series decomposition*	Ridership
N Huan, S Hess, E Yao, W Liu	Time-dependent pricing strategies for metro lines considering peak avoidance behaviour of commuters	Ridership
K Wen, J Xie, A Chen, S Wong, S Zhan, S Lo, L Qiang	Empirical analysis of scaled mixed itinerary-size weibit model for itinerary choice in a schedule-based railway network*	Ridership
Y Zhao, Z Ma	Naïve Bayes-Based Transition Model for Short-Term Metro Passenger Flow Prediction under Planned Events	Ridership
A Shantz, J Casello, C Woudsma, E Guerra	Understanding Factors Associated with Commuter Rail Ridership: A Demand Elasticity Study of the GO Transit Rail Network*	Ridership
S Berrebi, E Lind, C Brakewood, G Erhardt, K Watkins	Investigating the Ridership Impact of New Light-Rail Transit and Arterial Bus Rapid Transit Lines in the Twin Cities	Ridership
J Chi	Asymmetric Gasoline Price Effects on Public Transit Ridership: Evidence from U.S. Cities	Ridership
E Jonescu, C Ramanayaka, S Moorcroft, D Symington	Understanding employee travel behaviours in response to workplace relocation: a case study comparing commuting patterns between Subiaco and Perth, Western Australia*	Ridership
E Lunke	Accessibility in a multi-ethnic city: Residential trade-offs among first-time parents*	Ridership
A Long, F Carney, J Kandt	Who is returning to public transport for non-work trips after COVID-19? Evidence from older citizens' smart cards in the UK's second largest city region*	Ridership
B Kapatsila, M Palacios, E Grisé, A El-Geneidy	Resolving the accessibility dilemma: Comparing cumulative and gravity-based measures of accessibility in eight Canadian cities*	Ridership
K Kim	Investigation of modal integration of bike-sharing and public transit in Seoul for the holders of 365-day passes	Ridership
J Wang, Y Lu, Y Yang, J Peng, Y Liu, L Yang	Influence of a new rail transit line on travel behavior: Evidence from repeated cross-sectional surveys in Hong Kong	Ridership

L Mussone, F Changizi	A study on the factors that influenced the choice of transport mode before, during, and after the first lockdown in Milan, Italy	Ridership
S Lee, E Ko, K Jang, S Kim	Understanding individual-level travel behavior changes due to COVID-19: Trip frequency, trip regularity, and trip distance	Ridership
A Nikolaidou, A Kopsacheilis, G Geogiadis, T Noutsias, I Politis, I Fyrogenis	Factors affecting public transport performance due to the COVID-19 outbreak: A worldwide analysis*	Ridership
M Zhou, J Zhou	Structural change and spatial pattern of intentional travel groups: A case study of metro riders in Hong Kong	Ridership
J Soria, D Edward, A Stathopoulos	Requiem for transit ridership? An examination of who abandoned, who will return, and who will ride more with mobility as a service	Ridership
Z Chen, P Li, Y Jin, S Bharule, N Jia, W Li, X Song, R Shibasaki, H Zhang	Using mobile phone big data to identify inequity of aging groups in transit-oriented development station usage: A case of Tokyo	Ridership
V Varghese, M Moniruzzaman, M Chikaraishi	Environmental sustainability or equity in welfare? Analysing passenger flows of a mass rapid transit system with heterogeneous demand*	Ridership
S Kim, K Jang	Effects of land use on time-of-day transit ridership patterns	Land use
C Wang, X Wang, R Pan, Y Yan	Influence of Built Environment on Subway Trip Origin and Destination: Insights Based on Mobile Positioning Data	Land use
D Baker, O Linovski	The Impact of a Single Bus Rapid Transit Corridor on Transit Ridership: The Winnipeg Example	Land use
M Zhou, J Zhou, J Zhou, S Lei, Z Zhao	Introducing social contacts into the node-place model: A case study of Hong Kong	Land use
V Vigiú, C Liotta, B Pfeiffer, N Coulombel	Can public transport improve accessibility for the poor over the long term? Empirical evidence in Paris, 1968–2010	Land use
P Zhu, K Wang, S Ho, X Tan	How is commute mode choice related to built environment in a high-density urban context?	Land use
J Lin, T Lin, B Kadali, S Subbarao	Zone-based TOD evaluation considering interdependences among criteria and zones	Land use
P Stadler Benz, M Stauffacher	A systemic approach to the transformation of swiss railway stations: Mind the gap between the local, short-term and national, long-term worldviews*	Land use
A Varquez, S Dong, S Hanaoka, M Kanda	Evaluating future railway-induced urban growth of twelve cities using multiple SLEUTH models with open-source geospatial inputs	Land use
X Zhou, Q Dong, Z Huang, G Yin, G Zhou, Y Liu	The spatially varying effects of built environment characteristics on the integrated usage of dockless bike-sharing and public transport	Land use
E Lee, X Cen, H Lo	Scheduling zonal-based flexible bus service under dynamic stochastic demand and Time-dependent travel time	Operations
O Sabinik, H Bar-Gera	Relaxation methods for fixed route demand responsive transit	Operations
F Yuan, H Sun, L Kang, S Zhang	Joint optimization of train scheduling and dynamic passenger flow control strategy with headway-dependent demand	Operations
S Hao, R Song, S He	Timetabling for a congested urban rail transit network based on mixed logic dynamic model	Operations
J Liu, P Schonfeld, S Zhan, Q Peng, Y Liu	Measuring and enhancing the connectivity reliability of a rail transit network	Operations
R Javanmard, J Lee, J Kim, L Liu, E Diab	The impacts of the modifiable areal unit problem (MAUP) on social equity analysis of public transit reliability	Operations
E Solinen, C Palmqvist	Development of new railway timetabling rules for increased robustness*	Operations
C Kang, C Feng, P Chou, W Wey, H Khan	Mixed network DEA models with shared resources for measuring and decomposing performance of public transportation systems	Operations
B Yen, C Mulley, C Yeh	Performance evaluation for demand responsive transport services: A two-stage bootstrap-DEA and ordinary least square approach	Operations
H Cheng, S Xu, G Huang, S Shao, G Xu	Optimal pricing for ferry services with a new entrant: a game-theoretic perspective	Economics
M Zhang	Value uplift from transit investment-Property value or land value? A case study of the Gold Coast light rail system in Australia	Economics
D Albalate, G Bel, J Rosell	An evaluation of optimal scale and jurisdiction size to improve efficiency in metropolitan bus systems*	Economics
J Cowie	Long run productivity and profitability in the British bus industry*	Economics
J Liu, P Schonfeld, S Zhan, K Wang, Q Peng	Reducing an urban rail transit network's passenger-oriented vulnerability by adding turn-back tracks	Infrastructure



A Kustar, B Welle, T Hein Tun	Sustainable Urban Mobility in the NDCs: The Essential Role of Public Transport*	Infrastructure
S Foroutan, S Bamdad	Efficiency measurement of railway passenger stations through network data envelopment analysis	Infrastructure
R Peters	Improvised infrastructure and redistributive rights: Informal public transport in an Indonesian city	Mode
Y Zhou, Y Yu, Y Wang, B He, L Yang	Mode substitution and carbon emission impacts of electric bike sharing systems	Mode
Z Zhang, H Chai, Z Guo	Quantitative resilience assessment of the network-level metro rail service's responses to the COVID-19 pandemic	Mode
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T Skuzinski, D Weinreich, C Hernandez	Exploring the link between regional transportation governance and outcomes: A novel measure of polycentricity in metropolitan public transportation systems	Organisation
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X Hou, T Lv, J Xu, X Deng, F Liu, J Lam	Electrification transition and carbon emission reduction of urban passenger transportation systems—A case study of Shenzhen, China	Policy
D Schröder, L Kirn, J Kinigadner, A Loder, P Blum, Y Xu, M Lienkamp	Ending the myth of mobility at zero costs: An external cost analysis*	Policy
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