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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

10-2023

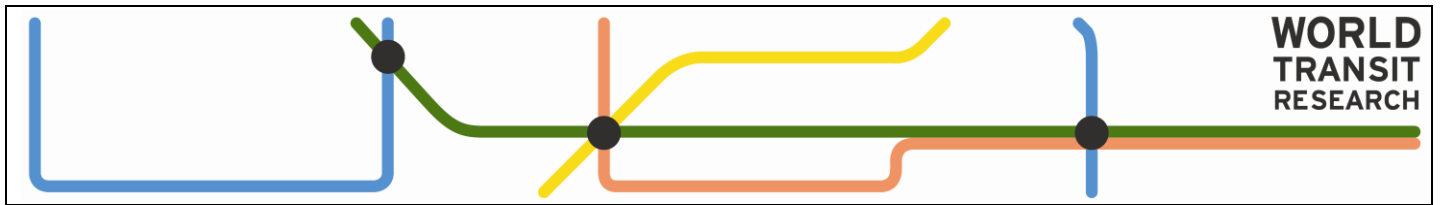
World Transit Research October 2023 Newsletter

Institute of Transport Studies Monash University

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World Transit Research

October 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.

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 9,789 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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Articles on the following two pages denoted with an asterisk * are from Journals that do not require a subscription to view the full article.

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
L Drouet, C Lallemand, V Koenig, F Viti, K Bongard-Blanchy	Uncovering factors influencing railway passenger experiences through love and breakup declarations*	Planning
A Anund, S Forward, A Dahlman	Seat belt usage in buses – An observation study of usage and travellers' perspectives*	Planning
B Li, L Tan, F Wang, L Liu	A railway intrusion detection method based on decomposition and semi-supervised learning for accident protection	Planning
F Baig, D Zhang, J Chen, J Lee	The Impacts of Incentives on Seat Yielding Behavior on the Bus	Planning
P Gairola, N Nezamuddin	Design of Battery Electric Bus System Considering Waiting Time Limitations	Planning
A Loukaitou-Sideris, J Wasserman, H Ding, R Caro	"It Is Our Problem!": Strategies for Responding to Homelessness on Transit*	Planning
H Qu, Z Wang, X Liu	Optimizing Integrated All-Stop, Express, and Short-Turn Services on a Metro Line with Capacity Constraint Considering Passenger Spatio-Temporal Path Choice	Planning
K O'Sullivan, D Shah, P Bilton, E McGuinness	Replicable Methodology for Transportation Agencies to Identify Priority Areas for First and Last Mile Solutions at the Regional Level	Planning
J Eager, C Bae, E McCormack	Estimating Intermodal Transfer Barriers to Light Rail using Smartcard Data in Seattle, WA	Planning
T Yamada, R Abe, K Tanabe	Employer Perceptions of Introducing Dynamic Pricing for Urban Rail: Evidence from Tokyo during Work Style Changes	Planning
L Tatah, L Foley, T Oni, M Pearce, C Lwanga, V Were, F Assah, Y Wasnyo, E Mogo, G Okello, S Mogere, C Obonyo, J Woodcock	Comparing travel behaviour characteristics and correlates between large and small Kenyan cities (Nairobi versus Kisumu)*	Planning
C Braga, C Loureiro, R Pereira	Evaluating the impact of public transport travel time inaccuracy and variability on socio-spatial inequalities in accessibility	Planning
R Su, K Goulias	Untangling the relationships among residential environment, destination choice, and daily walk accessibility*	Planning
Z Tan, S Shao, X Zhang, W Shang	Sustainable urban mobility: Flexible bus service network design in the post-pandemic era*	Planning
C Li, L Bai, H Wang, Z Li	Promoting the design of future urban metro systems to improve air pollution: Based on metal element pollution in Chinese metro system	Planning
J Zhong, Z He, J Xie	Revealing the travel community in the integrated system of free-floating bike and metro	Planning
F Basso, J Frez, H Hernández, V Leiva, R Pezoa, M Varas	Crowding on public transport using smart card data during the COVID-19 pandemic: New methodology and case study in Chile*	Planning
Y Tian, D Yang, J Wang, W Lin, Y Jiang, S An	Designing and planning sustainable customized bus service for departing attendees of planned special events: A two-phase methodology integrating data-driven and demand-responsive	Planning
B Yen, C Mulley, G Meza	Exploring the attitudes and perceptions influencing user participation in gamification schemes for TDM	Planning
B Liu, J Ji, J Chen, M Qi, S Li, L Tang, K Zhang	Quantitative VfM evaluation of urban rail transit PPP projects considering social benefit	Planning
S Shah, R Rajiv, A Lokre	Moving Toward Gender-Equitable Transportation in Post-COVID-19 Urban South Asia	Planning
A Sanguinetti, A DePew, K Hirschfeldt	Vehicle Design Strategies to Reduce the Risk of COVID-19 Transmission in Shared and Pooled Travel: Inventory, Typology, and Considerations for Research and Implementation*	Planning
F Ciuffini, S Tengattini, A Bigazzi	Mitigating Increased Driving after the COVID-19 Pandemic: An Analysis on Mode Share, Travel Demand, and Public Transport Capacity*	Planning
L Abreu, A Conway	A Qualitative Assessment of the Multimodal Passenger Transportation System Response to COVID-19 in New York City*	Planning
M Habib, M Anik	Impacts of COVID-19 on Transport Modes and Mobility Behavior: Analysis of Public Discourse in Twitter*	Planning
J Celse, G Grolleau	Fare evasion and information provision: What information should be provided to reduce fare-evasion?	Planning
J Yu, Y Zheng, W Li, J Zhang, R Guo, L Wu	Understanding Flex-Route Transit Adoption from a Stage of Change Perspective	Planning
G Currie, J Reynolds, D Logan, K Young	"Tram Wrong Way" International Experience and Mitigation of Track Switch Errors	Planning
M Bayrak, S Guler	Linkage Problem in Location Optimization of Dedicated Bus Lanes on a Network*	Planning

X Li, J Wu, D He, X Teng, C Ren	Learning Spatial-Temporal Dynamics for Short-Term Passenger Flow Prediction in Urban Rail Transit	Planning
S Sadeghi, R Daziano, S Yoon, A Anderson	Crowding and Perceived Travel Time in Public Transit: Virtual Reality Compared With Stated Choice Surveys	Planning
K Hsueh, Y Lai	Automatic Evaluation Framework for Reliability and Safety of Multiple Train Detection Systems	Planning
Y Jiao, Y Tan, X Zhang, Z Sun, L Fu, C Wen, C Jiang	Label-Less Learning for Urban Railway Transit Driver Fatigue Detection with Heart Rate Variability	Planning
S Tao, L Cheng, S He, F Witlox	Examining the non-linear effects of transit accessibility on daily trip duration: A focus on the low-income population	Ridership
R Pezoa, F Basso, P Quilodrán, M Varas	Estimation of trip purposes in public transport during the COVID-19 pandemic: The case of Santiago, Chile*	Ridership
L Liu, A Kar, A Tokey, H Le, H Miller	Disparities in public transit accessibility and usage by people with mobility disabilities: An evaluation using high-resolution transit data	Ridership
M Zhou, H Ma, J Wu, J Zhou	Metro travel and perceived COVID-19 infection risks: A case study of Hong Kong*	Ridership
X Qian, M Jaller, G Circella	Exploring the potential role of bikeshare to complement public transit: The case of San Francisco amid the coronavirus crisis*	Ridership
A Baghbani, N Bouguila, Z Patterson	Short-Term Passenger Flow Prediction Using a Bus Network Graph Convolutional Long Short-Term Memory Neural Network Model*	Ridership
H Fan, H Lu, Z Dai, R Passmore, A Guin, K Watkins, R Guensler	Combined Effect of Changes in Transit Service and Changes in Occupancy on Per-Passenger Energy Consumption	Ridership
C Tsai, Y Lin, W Liu, H Cheong, R Houghton, W Hsu, M Iulia, Y Liu, J Kang, K Lee, Y Kuan, H Lee, C Wu, L Li, W Cheng, S Ho, S Lin, A Majumdar	Aberrant Driving Behavior Prediction for Urban Bus Drivers in Taiwan Using Heart Rate Variability and Various Machine Learning Approaches: A Pilot Study	Ridership
G Sivakumar Nair, A Mirzaei, N Ruiz-Juri	Investigating the Use of Machine Learning Methods in Direct Ridership Models for Bus Transit	Ridership
A Utku, S Kaya	New Deep Learning-Based Passenger Flow Prediction Model	Ridership
G Tian, R Ewing, H Li	Exploring the influences of ride-hailing services on VMT and transit usage – Evidence from California	Ridership
C Yang, Z Wan, Q Yuan, Y Zhou, M Sun	Travel before, during and after the COVID-19 pandemic: Exploring factors in essential travel using empirical data*	Ridership
H Sung	Multi-scale moderation impacts of jobs and housing balancing on sustainable commuting behavior in Seoul	Ridership
T Abe, S Seino, T Hata, M Yamashita, N Ohmori, A Kitamura, S Shinkai, Y Fujiwara	Transportation modes and social participation in older drivers and non-drivers: Results from urbanised Japanese cities	Ridership
S Kim, K Jang, J Yeo	Non-linear impacts of COVID-19 pandemic on human mobility: Lessons from its variations across three pandemic waves*	Ridership
A Montes, N Geržinic, W Veeneman, N van Oort, S Hoogendoorn	Shared micromobility and public transport integration - A mode choice study using stated preference data*	Ridership
M Jun, M Yun	Station-Level Effects of the COVID-19 Pandemic on Subway Ridership in the Seoul Metropolitan Area*	Ridership
R Rafiq, M McNally, M Uddin	Telecommuting and Travel during COVID-19: An Exploratory Analysis across Different Population Geographies in the U.S.A.*	Ridership
M Wilbur, A Ayman, A Sivagnanam, A Ouyang, V Poon, R Kabir, A Vadali, P Pugliese, D Freudberg, A Laszka, A Dubey	Impact of COVID-19 on Public Transit Accessibility and Ridership	Ridership
B Moghimi, C Kamga, A Safikhani, S Mudigonda, P Vicuna	Non-Stationary Time Series Model for Station-Based Subway Ridership During COVID-19 Pandemic: Case Study of New York City*	Ridership
J Jiao, K Hansen, A Azimian	Disparities in the Impacts of the COVID-19 Pandemic on Public Transit Ridership in Austin, Texas, U.S.A.*	Ridership
S Mashrur, K Wang, P Loa, S Hossain, K Nurul Habib	Application of Protection Motivation Theory to Quantify the Impact of Pandemic Fear on Anticipated Postpandemic Transit Usage*	Ridership
Q Ye, K Ozbay, F Zuo, X Chen	Impact of Social Media on Travel Behaviors during the COVID-19 Pandemic: Evidence from New York City*	Ridership
A Halvorsen, D Wood, D Jefferson, T Stasko, J Hui, A Reddy	Examination of New York City Transit's Bus and Subway Ridership Trends During the COVID-19 Pandemic*	Ridership
P Loa, K Nurul Habib	Identifying the Determinants of Anticipated Post-Pandemic Mode Choices in the Greater Toronto Area: A Stated Preference Study*	Ridership
J Chen, C Xu, X Du, R Han, H El Nagggar	Physical and numerical modeling of seismic soil-structure interaction of prefabricated subway station structure	Infrastructure
S Liang, R Leng, H Zhang, J Zhao	Two-Stage Transit Signal Priority Control Method to Improve Reliability of Bus Operation Considering Stochastic Process	Infrastructure

A Soltanpour, M Ghamami, M Nicknam, M Ganji, W Tian M Khan, N Onat	Charging Infrastructure and Schedule Planning for a Public Transit Network with a Mixed Fleet of Electric and Diesel Buses	Infrastructure
S Würtz, K Bogenberger, U Göhner	Comprehensive Total Cost of Ownership Framework for Alternative Fuel Public Transportation Buses	Infrastructure
P Karthik, N Rathod, S Yasodharan, W Lobo, A Sahadevan, R Sundaresan, P Verma	Big Data and Discrete Optimization for Electric Urban Bus Operations	Infrastructure
Z Soomauroo, P Blechinger, F Creutzig	Bus priority lane in Bengaluru: A study on its effectiveness and driver stress	Infrastructure
T Yan, M Costa, F Corman	Electrifying public transit benefits public finances in small island developing states*	Infrastructure
M Momenitabar, Z Ebrahimi, K Bengtson	Developing and Extending Status Prediction Models for Railway Tracks Based on On-Board Monitoring Data*	Infrastructure
B Wu, H Wang, Y Wang, B Zhai, H Yang	Optimal Placement of Battery Electric Bus Charging Stations Considering Energy Storage Technology: Queuing Modeling Approach	Infrastructure
M Al-Rashid, Y Harumain, H Goh, Z Ali, M Nadeem, T Campisi	Transit Signal Priority Method Based on Speed Guidance and Coordination Among Consecutive Intersections	Infrastructure
A Durand, T Zijlstra, M Hamersma, A Hoen, N van Oort, S Hoogendoorn-Lanser, S Hoogendoorn	Perceived norms of public transport use as the determinants of older adults' social exclusion: Evidence from Pakistan	Policy
J Lin, E Jenelius, M Cebecauer, I Rubensson, C Chen	"Who can I ask for help?": Mechanisms behind digital inequality in public transport*	Policy
J Allen, C Higgins, D Silver, S Farber	The equity of public transport crowding exposure	Policy
A Poorthuis, M Zook	Are low-income residents disproportionately moving away from transit?	Policy
C Ward, D Walsh	Moving the 15-minute city beyond the urban core: The role of accessibility and public transport in the Netherlands	Policy
B Yen, C Mulley, G Meza	"I just don't go nowhere.": How transportation disadvantage reinforces social exclusion	Policy
H Chan, Y Xu, A Chen, J Zhou	Understanding the potential policy transfer of gamification schemes for behaviour change in public transport and road safety	Policy
J Wang, F Wan, C Dong, C Yin, X Chen	Choice and equity: A critical analysis of multi-modal public transport services	Policy
H Jiao, S Huang, Y Zhou	Spatiotemporal effects of built environment factors on varying rail transit station ridership patterns	Land use
L Gao, H Chong, W Zhang, Z Li	Understanding the land use function of station areas based on spatiotemporal similarity in rail transit ridership: A case study in Shanghai, China	Land use
S Liu, Y Deng, X Hu, J Zhou, J Chen	Nonlinear effects of public transport accessibility on urban development: A case study of mountainous city	Land use
A Diaz, V Cantillo, J Arellana	Fan-Shaped Model for Generating the Anisotropic Catchment Area of Subway Stations Based on Feeder Taxi Trips	Land use
T Tao, J Cao	Understanding how individuals perceive changes in the built environment and the transport system after implementing a BRT system. The case of Barranquilla, Colombia	Land use
H Yang, Y Lu, J Wang, Y Zheng, Z Ruan, J Peng	Exploring nonlinear and collective influences of regional and local built environment characteristics on travel distances by mode*	Land use
M Dziauddin	Understanding post-pandemic metro commuting ridership by considering the built environment: A quasi-natural experiment in Wuhan, China	Land use
T Wen, J Liu, Y Cao, C Roberts	Quantifying the Impact of Light Rail Transit on Commercial Property Values: New Evidence From Greater Kuala Lumpur, Malaysia	Land use
S Chai, J Yin, A D'Ariano, M Samà, T Tang	Parallel Kalman filter group integrated particle filter method for the train nonlinear operational status high-precision estimation under non-Gaussian environment	Operations
M Uribe-Laverde, W Oquendo-Patiño	Scheduling of Coupled Train Platoons for Metro Networks: A Passenger Demand-Oriented Approach	Operations
K Gkiotsalitis, T Liu	Critical Role of Docking Bay Assignment in the Performance of a Bus Rapid Transit System	Operations
S Jayatilake, J Bunker	Periodic Optimization of Bus Dispatching Times and Vehicle Schedules Considering the COVID-19 Capacity Limits: A Dutch Case Study*	Operations
J Wang, F Liao, J Wu, H Sun, W Wang, Z Gao	Impact of COVID-19 on Waiting Passenger Distribution on a Bus Rapid Transit Station Platform in Brisbane, Australia*	Operations
S Kim, D Ku, S Lee	Measurement of functional resilience of transport network: The case of the Beijing subway network*	Operations
	Metro Network Operational Solutions for Connectivity Control based on Percolation Theory	Operations

P Ye, Y Ma	Clustering-Based Travel Pattern for Individual Travel Prediction of Frequent Passengers by Using Transit Smart Card	Technology
T Wischer, M Cik, M Fellendorf	Graph Supported Mode Detection within Mobile Phone Data Trajectories	Technology
L Kolkowski, O Cats, M Dixit, T Verma, E Jenelius, M Cebecauer, I Rubensson	Measuring activity-based social segregation using public transport smart card data*	Technology
X Li, L Shi, J Tang, C Yang, T Zhao, Y Wang, W Wang	Determinants of passengers' ticketing channel choice in rail transit systems: New evidence of e-payment behaviors from Xi'an, China	Technology
D Das, N Altekar, K Head	Priority-Based Traffic Signal Coordination System With Multi-Modal Priority and Vehicle Actuation in a Connected Vehicle Environment	Technology
Z Qin, D Fukuda	Use of public transport and social capital building: An empirical study of Japan	Organisation
J Preston	All things must pass? Recent changes to competition and ownership in public transport in Great Britain*	Organisation
R Pyddoke, K Thoresson	Has collaboration contributed to goal achievement in Swedish public transport?*	Organisation
M Ma, Y Chen, W Liu, S Waller	An economic analysis of a multi-modal transportation system with ride-sourcing services and multi-class users	Economics
E Borowski, J Soria, J Schofer, A Stathopoulos	Does ridesourcing respond to unplanned rail disruptions? A natural experiment analysis of mobility resilience and disparity	Mode

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