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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

10-2022

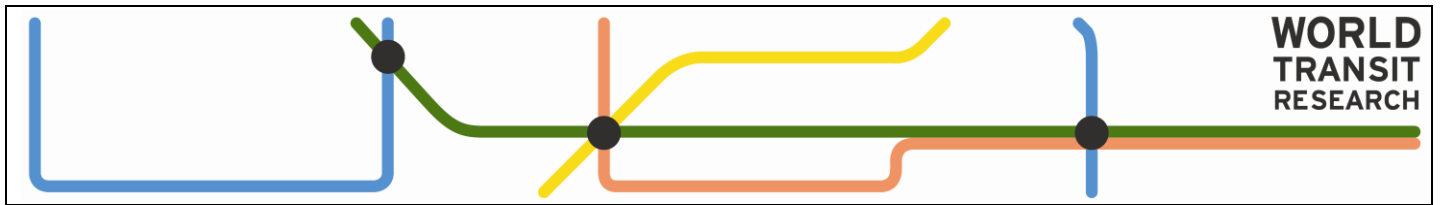
World Transit Research October 2022 Newsletter

Institute of Transport Studies Monash University

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World Transit Research

October 2022 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 9,212 research reports/papers. Some 96 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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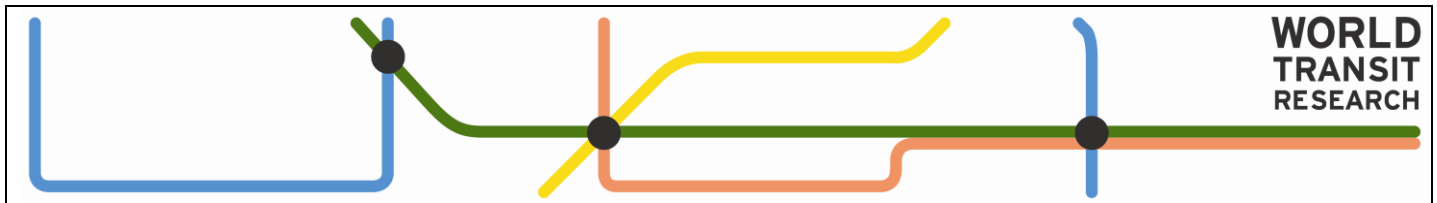
If you have any queries or suggestions on how to improve our publication, we would love to hear from you at: enquiries@worldtransitresearch.info

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
Y Wang, X Lin, F He, M Li	Designing transit-oriented multi-modal transportation systems considering travelers' choices	Planning
Z Wang, A Pel, T Verma, P Krishnakumari, P van Brakel, N van Oort	Effectiveness of trip planner data in predicting short-term bus ridership*	Planning
F Fuchs, A Trivella, F Corman	Enhancing the interaction of railway timetabling and line planning with infrastructure awareness*	Planning
S Jara-Diaz, A Monzon, R Cascajo, A Garcia-Martinez	An international time equivalency of the pure transfer penalty in urban transit trips: Closing the gap	Planning
D Das, P Kalbar, N Velaga	Role of non-motorized transportation and buses in meeting climate targets of urban regions	Planning
Y Wu, M Poon, Z Yuan, Q Xiao	Time-dependent customized bus routing problem of large transport terminals considering the impact of late passengers	Planning
Y Yang, X Han, R Jiang, B Jia, Z Gao	Competition and coordination in public transport: A mode choice experiment	Planning
N Chai, W Zhou, X Hu	Safety evaluation of urban rail transit operation considering uncertainty and risk preference: A case study in China	Planning
P Claire, A Dupont-Kieffer, P Palmier	Potential accessibility to the workplace by public transit and its social distribution in Lille, France: A scenario-based equity appraisal	Planning
R Bridgelall	Relating subjective ride quality ratings to objective measures	Planning
J Durán-Micco, P Vansteenwegen	Transit network design considering link capacities	Planning
Z Wang, H Jia, F Dai, M Diao	Understanding the ground access and airport choice behavior of air passengers using transit payment transaction data	Planning
L Cheng, K Wang, J De Vos, J Huang, F Witlox	Exploring non-linear built environment effects on the integration of free-floating bike-share and urban rail transport: A quantile regression approach	Planning
J Esmailpour, K Aghabayk, M Aghajanzadeh, C De Gruyter	Has COVID-19 changed our loyalty towards public transport? Understanding the moderating role of the pandemic in the relationship between service quality, customer satisfaction and loyalty*	Planning
Y Zhang, H Li, G Ren	Quantifying the social impacts of the London Night Tube with a double/debiased machine learning based difference-in-differences approach	Planning
L Rennert	A meta-analysis of the impact of rail stations on property values: Applying a transit planning lens*	Planning
W Trommelen, K Gkiotsalitis, E van Berkum	Optimization Model for Rail Line Crossover Design Considering the Cost of Delay	Planning
H Shih, C Yeh, Y Lai	Optimization of Multi-Period Rail Procurement Plan	Planning
R Xu, X Song, F Wang, F Zhou	Assessment Method for Dynamic Impact of Large Passenger Flow on Urban Rail Transit Network: A Case Study on Chengdu East Railway Station	Planning
S Iqbal, T Ardan, M Hadi, E Kaiser	Developing Guidelines for Implementing Transit Signal Priority and Freight Signal Priority Using Simulation Modeling and a Decision Tree Algorithm	Planning
Z Ma, J Chow	Transit Network Frequency Setting With Multi-Agent Simulation to Capture Activity-Based Mode Substitution	Planning
J Guo, X Xiao, J Shi	Dynamic Carriage Reserving for an Over-crowded Metro Junction Station	Planning
Y Cao, Y An, S Su, G Xie, Y Sun	A statistical study of railway safety in China and Japan 1990–2020	Planning
J Kim, K Madeira-Revell, J Preston	Promoting passenger behaviour change with provision of occupancy information to help moderate train overcrowding: A cognitive work analysis approach	Planning
S Jara-Díaz, E Muñoz-Paulsen	Lessons from the strategic design of a bimodal public transport system on a linear city	Planning
B Zeng, Y Luo	Potential of harnessing operational flexibility from public transport hubs to improve reliability and economic performance of urban multi-energy systems: A holistic assessment framework	Planning
M Dekker, R van Lieshout, R Ball, P Bouman, S Dekker, H Dijkstra, R Goverde, D Huisman, D Panja, A Schaafsma, M van der Akker	A next step in disruption management: combining operations research and complexity science*	Planning

T Brands, M Dixit, E Zúñiga, N van Oort	Perceived and actual travel times in a multi-modal urban public transport network: comparing survey and AVL data*	Planning
M Nesheli, S Srikukenthiran, A Shalaby	An optimization model for planning limited-stop transit operations	Planning
L Ge, S Voß, L Xie	Robustness and disturbances in public transport*	Planning
J Durán-Micco, P Vansteenwegen	A survey on the transit network design and frequency setting problem	Planning
R Tamakloe, E Sam, M Bencekri, S Das, D Park	Mining groups of factors influencing bus/minibus crash severities on poor pavement condition roads considering different lighting status	Planning
P Jung, H Kim, K Lee, Y Song	Examining Day-to-Day Dynamic Transit Accessibility Using Functional Data Analysis	Planning
C Shuai, J Shan, J Bai, J Lee, M He, X Ouyang	Relationship analysis of short-term origin–destination prediction performance and spatiotemporal characteristics in urban rail transit	Ridership
J Vallejo-Borda, R Giesen, P Basnak, J Reyes, B Mella Lira, M Beck, D Hensher, J de Dios Ortúzar	Characterising public transport shifting to active and private modes in South American capitals during the COVID-19 pandemic*	Ridership
S Mashrur, K Wang, K Habib	Will COVID-19 be the end for the public transit? Investigating the impacts of public health crisis on transit mode choice*	Ridership
M Huber, J Meier, H Wallimann	Business analytics meets artificial intelligence: Assessing the demand effects of discounts on Swiss train tickets*	Ridership
B Gramsch, C Guevara, M Munizaga, D Schwartz, A Tirachini	The effect of dynamic lockdowns on public transport demand in times of COVID-19: Evidence from smartcard data*	Ridership
Y Yan, S Zhong, J Tian, T Li	Continuance intention of autonomous buses: An empirical analysis based on passenger experience	Ridership
S Ferreira, M Amorim, A Lobo, M Kern, N Fanderl, A Couto	Travel mode preferences among German commuters over the course of COVID-19 pandemic	Ridership
L Guzman, P Hessel	The effects of public transport subsidies for lower-income users on public transport use: A quasi-experimental study*	Ridership
S Jiang, C Cai	Unraveling the dynamic impacts of COVID-19 on metro ridership: An empirical analysis of Beijing and Shanghai, China*	Ridership
Y Deng, P Zhao	The impact of new metro on travel behavior: Panel analysis using mobile phone data	Ridership
L Deepa, A Rawoof Pinjari, S Krishna Nirmale, K Srinivasan, T Rambha	A direct demand model for bus transit ridership in Bengaluru, India	Ridership
R Ogata, J Schmöcker, T Nakamura, M Kuwahara	On the potential of carsharing to attract regular trips of private car and public transport users in metropolitan areas	Ridership
L Downey, A Fonzone, G Fountas, T Semple	The impact of COVID-19 on future public transport use in Scotland*	Ridership
S Barr, S Lampkin, L Dawkins, D Williamson	‘I feel the weather and you just know’. Narrating the dynamics of commuter mobility choices*	Ridership
S Haustein, M Kroesen	Shifting to more sustainable mobility styles: A latent transition approach*	Ridership
Q Du, Y Zhou, Y Huang, Y Wang, L Bai	Spatiotemporal exploration of the non-linear impacts of accessibility on metro ridership	Ridership
Y Zhou, Q Yuan, F Ding, M Chen, C Yang, T Guo	Demand, mobility, and constraints: Exploring travel behaviors and mode choices of older adults using a facility-based framework	Ridership
L La Paix, A Oakil, F Hofman, K Geurs	The influence of panel effects and inertia on travel cost elasticities for car use and public transport*	Ridership
W Li, A Shalaby, K Habib	Exploring the correlation between ride-hailing and multimodal transit ridership in toronto	Ridership
P Xie, D Qin, T Zhu	Impact of rule-violating behaviors on the risk of bus drivers being at-fault in crashes	Ridership
Y Cheng, X Ye, T Fujiyama	How does interchange affect passengers’ route choices in urban rail transit? – a case study of the Shanghai Metro*	Ridership
F Garrido-Valenzuela, D Cruz, M Dragicevic, A Schmidt, J Moya, S Tamblay, J Herrera, J Muñoz	Identifying and visualizing operational bottlenecks and Quick win opportunities for improving bus performance in public transport systems	Operations
Y Hu, S Li, M Dessouky, L Yang, Z Gao	Computationally efficient train timetable generation of metro networks with uncertain transfer walking time to reduce passenger waiting time: A generalized Benders decomposition-based method	Operations



M Sadrani, A Tirachini, C Antoniou	Optimization of service frequency and vehicle size for automated bus systems with crowding externalities and travel time stochasticity*	Operations
Y Yin, D Li, Z Han, X Dong, H Liu	Maximizing network utility while considering proportional fairness for rail transit systems: Jointly optimizing passenger allocation and vehicle schedules	Operations
G Chen, S Zhang, H Lo, H Liu	Does bus bunching happen inevitably: The counteraction between link and stop headway deviations?	Operations
C Limsawasd, N Athigakunagorn, P Khathawatcharakun, A Boonmee	Skip-Stop Strategy Patterns optimization to enhance mass transit operation under physical distancing policy due to COVID-19 pandemic outbreak*	Operations
J Shi, T Qin, L Yang, X Xiao, J Guo, Y Shen, H Zhou	Flexible train capacity allocation for an overcrowded metro line: A new passenger flow control approach	Operations
L Lei, R Kwan, Z Lin, P Copado-Mendez	Resolution of coupling order and station level constraints in train unit scheduling*	Operations
D Ou, R Liu, I Rasheed, L Shi, H Li	Operation performance of tram lanes with intermittent priority with the coexistence of regular and automatic vehicles	Operations
H Zhou, J Qi, L Yang, J Shi, H Pan, Y Gao	Joint optimization of train timetabling and rolling stock circulation planning: A novel flexible train composition mode	Infrastructure
M Long, X Zou, Y Zhou, E Chung	Deep reinforcement learning for transit signal priority in a connected environment	Infrastructure
S Sharif Azadeh, J Vester, M Maknoon	Electrification of a bus system with fast charging stations: Impact of battery degradation on design decisions*	Infrastructure
Z Li, Y Tian, J Sun, X Lu, Y Kan	Simulation-based optimization of large-scale dedicated bus lanes allocation: Using efficient machine learning models as surrogates	Infrastructure
D Hensher	Is it time for a new bus contract procurement model under a zero emissions bus setting?	Infrastructure
H Ren, Z Ma, C Fai Norman Tse, Y Sun	Optimal control of solar-powered electric bus networks with improved renewable energy on-site consumption and reduced grid dependence	Infrastructure
H Hu, B Du, W Liu, P Perez	A joint optimisation model for charger locating and electric bus charging scheduling considering opportunity fast charging and uncertainties	Infrastructure
H Zhou, J Qi, L Yang, J Shi, P Mo	Joint optimization of train scheduling and rolling stock circulation planning with passenger flow control on tidal overcrowded metro lines	Infrastructure
R Chen, J Zhou	Fare adjustment's impacts on travel patterns and farebox revenue: An empirical study based on longitudinal smartcard data	Policy
S Lin, S Zhu, X Li, R Li	Effects of strict vehicle restrictions on various travel modes: A case study of Zhengzhou, China	Policy
B De Borger, S Proost	Covid-19 and optimal urban transport policy*	Policy
M Emami, H Haghshenas, A Talebian, S Kermanshahi	A game theoretic approach to study the impact of transportation policies on the competition between transit and private car in the urban context	Policy
M Saraiva, J Barros	Accessibility in São Paulo: An individual road to equity?	Policy
I Docherty, J Stone, C Curtis, C Sørensen, A Paulsson, C Legacy, G Marsden	The case for 'public' transport in the age of automated mobility	Policy
A Bueno Rezendede Castro, A Ortega Sandoval, G Odamtten	Up around the bend? How transport poverty can lead to social exclusion in a low-income community in Lagos, Nigeria	Policy
A Zandiatashbar, S Hamidi	Impact of Transit Quality on Anchor-Mediated Knowledge Economies Across Large U.S. Cities	Land use
A Forouhar	Rail transit station and neighbourhood change: A mixed-method analysis with respect to neighbourhood context	Land use
Z Liu, Y Li, Z Ming	Transit network effects and multilevel access premiums: Evidence from the housing market of Shanghai, China	Land use
E Kåresdotter, J Page, U Mörtberg, H Näsström, Z Kalantari	First Mile/Last Mile Problems in Smart and Sustainable Cities: A Case Study in Stockholm County*	Land use
A Cunillera, N Bešinović, N van Oort, R Goverde	Real-time train motion parameter estimation using an Unscented Kalman Filter*	Technology
J Zhang, R Jia, H Yang, K Dong	Does electric vehicle promotion in the public sector contribute to urban transport carbon emissions reduction?	Technology
X Chen, X Lin, M Li, F He	Network-level control of heterogeneous automated traffic guaranteeing bus priority	Technology

G Li, A Chen	Frequency-based path flow estimator for transit origin-destination trip matrices incorporating automatic passenger count and automatic fare collection data	Technology
L Ravensbergen, M Van Liefferinge, J Isabella, Z Merrina, A El-Geneidy	Accessibility by public transport for older adults: A systematic review*	Literature review
R Tang, L De Donato, N Bešinović, F Flammini, R Goverde, Z Liu, T Tang, V Vittorini, Z Wang	A literature review of Artificial Intelligence applications in railway systems	Literature review
V Ceccato, N Gaudalet, G Graf	Crime and safety in transit environments: a systematic review of the English and the French literature, 1970–2020*	Literature review
Q Liu, J Chow	Efficient and stable data-sharing in a public transit oligopoly as a coopetitive game	Organisation
J Zhou, X Xu, J Long, J Ding	Metro crew planning with day-off pattern, duty type, and rostering scheme considerations	Organisation
Q Luo, X Bing, H Jia, J Song	An incentive subsidy mechanism for bus lines based on service level	Organisation
Y Deng, S Shao, A Mittal, R Twumasi-Boakye, J Fishelson, A Gupta, N Shroff	Incentive design and profit sharing in multi-modal transportation networks	Economics
G Eldeep, M Mohamed	Consumers oriented investments in transit service quality improvements: The best bang for your buck	Economics
J Tyndall	Complementarity of dockless micromobility and rail transit	Mode
C Kapuku, S Kho, D Kim, S Cho	Modeling the competitiveness of a bike-sharing system using bicycle GPS and transit smartcard data	Mode

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