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The Australian Research Council Key Centre in Transport Management

Institute of Transport Studies, Monash University
World Transit Research

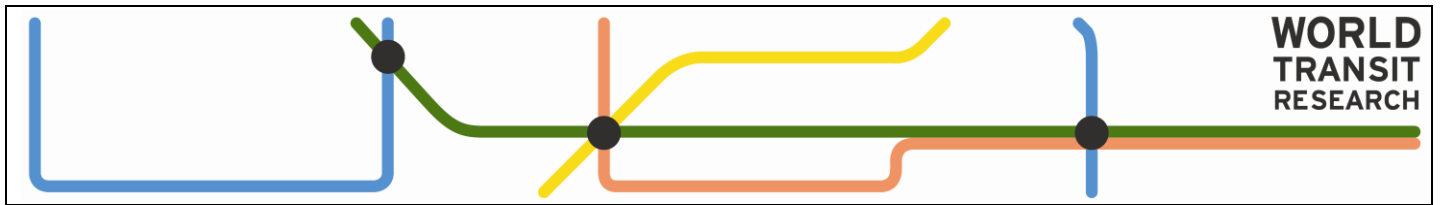
World Transit Research Newsletter

8-2021

World Transit Research August 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 8,539 research reports/papers. Some 100 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

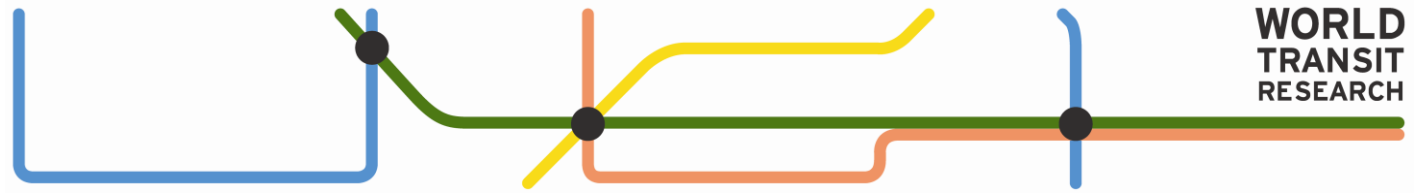
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WORLD TRANSIT RESEARCH – NEW RESEARCH PUBLICATIONS

AUTHOR	TITLE	CATEGORY
Y Zhang, A Khani	Integrating transit systems with ride-sourcing services: A study on the system users' stochastic equilibrium problem	Planning
Ö Kökalan, A Tutan	Passenger Satisfaction Scale for Public Transportation	Planning
N Dawda, H Gajera, G Joshi, S Arkatkar, S Dave	Efficiency Based Evaluation of Public Transport and Paratransit Systems with a View to Integrating Transportation	Planning
T Lyons, D Choi	Transit Economic Equity Index: Developing a Comprehensive Measure of Transit Service Equity	Planning
P Nakshi, A Debnath	Modal Mismatch and Accessibility Gap in Dhaka using a Time of Day Based Approach	Planning
S Cho, K Choi	Transport accessibility and economic growth: Implications for sustainable transport infrastructure investments	Planning
L Alcorn, A Karner	Integrating formal and informal transit into one hybrid passenger transport system in Lagos, Nigeria	Planning
W Sun, J Schmöcker, T Nakamura	On the tradeoff between sensitivity and specificity in bus bunching prediction	Planning
A Kopsidas, C Milioti, K Kepaptsoglou, E Vlachogianni	How did the COVID-19 pandemic impact traveler behavior toward public transport? The case of Athens, Greece	Planning
G Moreira, V Ceccato	Testing theft transmission in and around São Paulo metro stations, Brazil	Planning
H Suman, H Larrain, J Muñoz	The impact of using a naïve approach in the limited-stop bus service design problem	Planning
P Jochem, C Lisson, A Khanna	The role of coordination costs in mode choice decisions: A case study of German cities	Planning
B Coelho, J Varandas, M Hijma, A Zoeteman	Towards network assessment of permanent railway track deformation	Planning
S Das, A Boruah, A Banerjee, R Raoniar, S Nama, A Maurya	Impact of COVID-19: A radical modal shift from public to private transport mode	Planning
S Ebrahimi, R Bridgelall	A fuzzy Delphi analytic hierarchy model to rank factors influencing public transit mode choice: A case study	Planning
I Dakic, L Leclercq, M Menendez	On the optimization of the bus network design: An analytical approach based on the three-dimensional macroscopic fundamental diagram	Planning
P Mo, A D'Ariano, L Yang, L Veelenturf, Z Gao	An exact method for the integrated optimization of subway lines operation strategies with asymmetric passenger demand and operating costs	Planning
L Sala, S Wright, C Cottrill, E Flores-Sola	Generating demand responsive bus routes from social network data analysis	Planning
S Zhao, H Yang, Y Wu	An integrated approach of train scheduling and rolling stock circulation with skip-stopping pattern for urban rail transit lines	Planning
A Petit, M Yildirimoglu, N Geroliminis, Y Ouyang	Dedicated bus lane network design under demand diversion and dynamic traffic congestion: An aggregated network and continuous approximation model approach	Planning
Y He, S Thies, P Avner, J Rentschler	Flood impacts on urban transit and accessibility—A case study of Kinshasa	Planning
H Abdelaty, A Al-Obaidi, M Mohamed, H Farag	Machine learning prediction models for battery-electric bus energy consumption in transit	Planning
Y Ram, A Gal-Tzur, A Rechavi	Identifying attributes of public transport services for urban tourists: A data-mining method	Planning
K Oldbury, K Isaksson	Governance arrangements shaping driverless shuttles in public transport: The case of Barkarbystaden, Stockholm	Planning
Y Huang, L Gao, A Ni, X Liu	Analysis of travel mode choice and trip chain pattern relationships based on multi-day GPS data: A case study in Shanghai, China	Planning
E Hussain, A Bhaskar, E Chung	A novel origin destination based transit supply index: Exploiting the opportunities with big transit data	Planning
D Hensher, M Beck, E Wei	Working from home and its implications for strategic transport modelling based on the early days of the COVID-19 pandemic	Planning
X Yan, X Zhao, Y Han, P Van Hentenryck, T Dillahunt	Mobility-on-demand versus fixed-route transit systems: An evaluation of traveler preferences in low-income communities	Planning
X Wang, T Tang, S Su, J Yin, Z Gao, N Lv	An integrated energy-efficient train operation approach based on the space-time-speed network methodology	Planning
E Barri, S Faber, A Kramer, H Jahanshahi, J Allen, E Beyazit	Can transit investments in low-income neighbourhoods increase transit use? Exploring the nexus of income, car-ownership, and transit accessibility in Toronto	Planning
H Larrain, H Suman, J Muñoz	Route based equilibrium assignment in congested transit networks	Planning

Y Jiang, A Ceder	Incorporating personalization and bounded rationality into stochastic transit assignment model	Planning
B Montenegro, K Sørensen, P Vansteenwegen	A large neighborhood search algorithm to optimize a demand-responsive feeder service	Planning
A Silvestri, S Foudi, I Galarraga, A Ansuategi	The contribution of carsharing to low carbon mobility: Complementarity and substitution with other modes	Planning
C Kamga, P Eickemeyer	Slowing the spread of COVID-19: Review of “Social distancing” interventions deployed by public transit in the United States and Canada	Planning
L Merlin, M Singer, J Levine	Influences on transit ridership and transit accessibility in US urban areas	Ridership
L Guzman, C Beltran, J Bonilla, S Gomez Cardona	BRT fare elasticities from smartcard data: Spatial and time-of-the-day differences	Ridership
J Maisel, M Ranahan, J Choi	Factors Influencing Fixed-Route Transit Decision-Making: Exploring Differences by Disability and Community Type	Ridership
F Ahmed, J Catchpole, T Edirisinghe	Understanding Young Commuters’ Mode Choice Decision to Use Private Car or Public Transport from an Extended Theory of Planned Behavior	Ridership
P Loa, S Hossain, K Habib	On the Influence of Land Use and Transit Network Attributes on the Generation of, and Relationship between, the Demand for Public Transit and Ride-Hailing Services in Toronto	Ridership
V Van Acker, S Sandoval, M Cools	Value-Based Approach to Assess the Impact of Lifestyles on Mode Shares	Ridership
Y He, Y Zhao, K Tsui	An adapted geographically weighted LASSO (Ada-GWL) model for predicting subway ridership	Ridership
J Jiao, A Azimian	Exploring the factors affecting travel behaviors during the second phase of the COVID-19 pandemic in the United States	Ridership
A Dingil, D Esztergár-Kiss	The Influence of the Covid-19 Pandemic on Mobility Patterns: The First Wave’s Results	Ridership
S Cho, H Park	Exploring the Behaviour Change of Crowding Impedance on Public Transit due to COVID-19 Pandemic: Before and After Comparison	Ridership
Y Guo, S He	The role of objective and perceived built environments in affecting dockless bike-sharing as a feeder mode choice of metro commuting	Ridership
Z Cheng, M Trépanier, L Sun	Incorporating travel behavior regularity into passenger flow forecasting	Ridership
M Kim, G Cho	Analysis on bike-share ridership for origin-destination pairs: Effects of public transit route characteristics and land-use patterns	Ridership
S Liu, T Yamamoto, E Yao, T Nakamura	Examining public transport usage by older adults with smart card data: A longitudinal study in Japan	Ridership
Y Zuo, X Fu, Z Liu, D Huang	Short-term forecasts on individual accessibility in bus system based on neural network model	Ridership
B Aaditya, T Rahul	Psychological impacts of COVID-19 pandemic on the mode choice behaviour: A hybrid choice modelling approach	Ridership
S Berrebi, S Joshi, K Watkins	On bus ridership and frequency	Ridership
X Shi, Z Li, E Xia	The impact of ride-hailing and shared bikes on public transit: Moderating effect of the legitimacy	Ridership
H Wang, R Noland	Bikeshare and subway ridership changes during the COVID-19 pandemic in New York City	Ridership
A Busch-Geertsem, M Lanzendorf, M Klinner	Making public transport irresistible? The introduction of a free public transport ticket for state employees and its effects on mode use	Ridership
J Silva, E Sá, M Escadas, J Carvalho	The influence of ambient scent on the passengers’ experience, emotions and behavioral intentions: An experimental study in a Public Bus service	Ridership
M Giansoldati, R Danielis, L Rotaris	Train-feeder modes in Italy. Is there a role for active mobility?	Ridership
N Vasudevan, N Gore, R Zope, S Arkatkar, G Joshi	Determining mode shift elasticity based on household income and travel cost	Ridership
A Urbanek	Potential of modal shift from private cars to public transport: A survey on the commuters’ attitudes and willingness to switch – A case study of Silesia Province, Poland	Ridership
K Ko	Case study of property value transfer attributed to transit: spatial and temporal hedonic price impact of light rail in Minnesota’s Twin Cities	Land use
M Singer	How affordable are accessible locations? Neighborhood affordability in U.S. urban areas with intra-urban rail service	Land use
D Houston, M Zuñiga	Perceptions of neighborhood change in a Latinx transit corridor	Land use
Y Zhang, S Marshall, E Manley	Understanding the roles of rail stations: Insights from network approaches in the London metropolitan area	Land use
M Diemer, G Currie, C De Gruyter, M Kamruzzaman, I Hopkins	A streetcar to be desired? The development of a new approach to measure perception of place quality in the context of tram network modernisation	Land use

S Tornabene, I Nilsson	Rail transit investments and economic development: Challenges for small businesses	Land use
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C Ding, X Cao, B Yu, Y Ju	Non-linear associations between zonal built environment attributes and transit commuting mode choice accounting for spatial heterogeneity	Land use
S Sajib	A Qualitative Case Study on Inadequate Public Transport System and Its Social Impact on People in Dhaka	Land use
M Novales, A Orro, J Pérez-López, J Feal, M Bugarín	Increasing Boarding Lost Time at Regular Bus Stops during Rainy Conditions: A Case Study	Operations
K Gkiotsalitis	Bus rescheduling in rolling horizons for regularity-based services	Operations
L Kang, H Li, H Sun, J Wu, Z Cao, N Buhigiro	First train timetabling and bus service bridging in intermodal bus-and-train transit networks	Operations
Y Wu, H Yang, S Zhao, P Shang	Mitigating unfairness in urban rail transit operation: A mixed-integer linear programming approach	Operations
P Wang, X Chen, Y Zheng, L Cheng, Y Wang, D Lei	Providing real-time bus crowding information for passengers: A novel policy to promote high-frequency transit performance	Operations
I Dakic, K Yang, M Menendez, J Chow	On the design of an optimal flexible bus dispatching system with modular bus units: Using the three-dimensional macroscopic fundamental diagram	Operations
Q Ma, S Li, H Zhang, Y Yuan, L Yang	Robust optimal predictive control for real-time bus regulation strategy with passenger demand uncertainties in urban rapid transit	Operations
Q Tang, X Hu, J Lu, X Zhou	Analytical characterization of multi-state effective discharge rates for bus-only lane conversion scheduling problem	Operations
B Mo, Z Cao, H Zhang, Y Shen, J Zhao	Competition between shared autonomous vehicles and public transit: A case study in Singapore	Operations
T Bittencourt, M Giannotti	The unequal impacts of time, cost and transfer accessibility on cities, classes and races	Policy
C Cavoli	Accelerating sustainable mobility and land-use transitions in rapidly growing cities: Identifying common patterns and enabling factors	Policy
G Sharma, G Patil	Public transit accessibility approach to understand the equity for public healthcare services: A case study of Greater Mumbai	Policy
E Shin	Exploring the causal impact of transit fare exemptions on older adults' travel behavior: Evidence from the Seoul metropolitan area	Policy
N Fournier, E Christofa, E Gonzales	A continuous model for coordinated pricing of mixed access modes to transit	Policy
Y Song, M Chitturi, C McCahill, D Noyce	People's attitudes toward automated vehicle and transit integration: case study of small urban areas	Technology
Q Xin, R Fu, S Yu, S Ukkusuri, R Jiang	Modeling bus bunching and anti-bunching control accounting for signal control and passenger swapping behavior	Technology
T Zhang, X Duan, Y Li	Unveiling transit mobility structure towards sustainable cities: An integrated graph embedding approach	Technology
M Paulsen, T Rasmussen, O Nielsen	Impacts of real-time information levels in public transport: A large-scale case study using an adaptive passenger path choice model	Technology
S Li, R Liu, Z Gao, L Yang	Integrated train dwell time regulation and train speed profile generation for automatic train operations on high-density metro lines: A distributed optimal control method	Technology
W Gu, Y Mei, H Chen, Y Xuan, X Luo	An integrated intersection design for promoting bus and car traffic	Infrastructure
A Mohammadi, T El-Diraby	Toward user-oriented asset management for urban railway systems	Infrastructure
D Tsitsokas, A Kouvelas, N Geroliminis	Modeling and optimization of dedicated bus lanes space allocation in large networks with dynamic congestion	Infrastructure
R Wimbadi, R Djalante, A Mori	Urban experiments with public transport for low carbon mobility transitions in cities: A systematic literature review (1990–2020)	Literature review
K Mouratidis	Urban planning and quality of life: A review of pathways linking the built environment to subjective well-being	Literature review



J Berrada, A Poulhès	Economic and socioeconomic assessment of replacing conventional public transit with demand responsive transit services in low-to-medium density areas	Economics
Q Guo, Y Sun, P Schonfeld, Z Li	Time-dependent transit fare optimization with elastic and spatially distributed demand	Economics
N Otsuka, D Wittowsky, M Damerou, C Gerten	Walkability assessment for urban areas around railway stations along the Rhine-Alpine Corridor	Mode

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