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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

2-2023

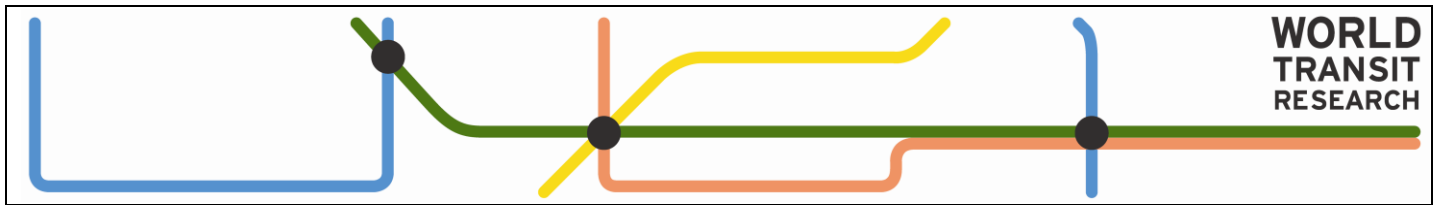
World Transit Research February 2023 Newsletter

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.

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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 9,387 research reports/papers. Some 92 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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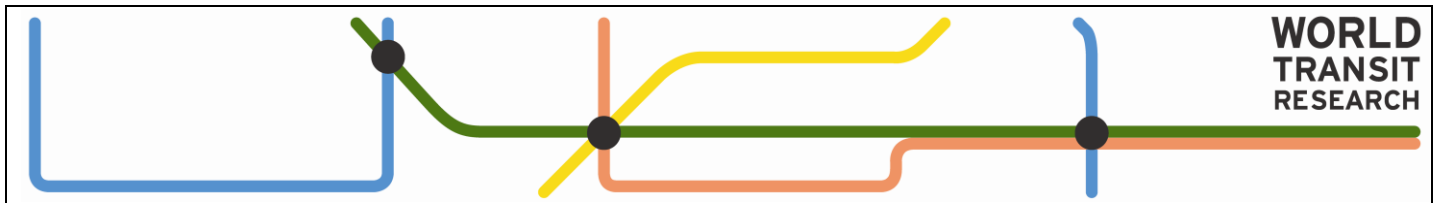
SUGGESTIONS WELCOMED

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
R Mackett	Gender, mental health and travel	Planning
M Almallah, Q Hussain, S SayedMohammed, W Alhajyaseen	Improved driver behaviour at bus stops on local roads: Comparison of different treatments	Planning
L Ellingsen, R Thorne, J Wind, E Figenbaum, M Romare, A Nordelöf	Life cycle assessment of battery electric buses	Planning
I García, M Albelson, N Puczkowskyj, S Khan, K Fagundo-Ojeda	Harassment of low-income women on transit: A photovoice project in Oregon and Utah	Planning
Y Zhang, R Fu, Y Guo, W Yuan	Environmental screening model of driving behavior for an electric bus entering and leaving stops	Planning
Y He, Z Liu, Z Song	Integrated charging infrastructure planning and charging scheduling for battery electric bus systems	Planning
A Achar, A Natarajan, R Regikumar, B Kumar	Predicting public transit arrival: A nonlinear approach	Planning
P Shang, L Yang, Y Yao, L Tong, S Yang, X Mi	Integrated optimization model for hierarchical service network design and passenger assignment in an urban rail transit network: A Lagrangian duality reformulation and an iterative layered optimization framework based on forward-passing and backpropagation	Planning
M Chiscano, S Darcy	An accessible and inclusive public transportation management response to COVID-19 through a co-creation process with people with disability. The case of Metro Barcelona*	Planning
M Stevens, G Correia, A Scheltes, B van Arem	An agent-based model for assessing the financial viability of autonomous mobility on-demand systems used as first and last-mile of public transport trips: A case-study in Rotterdam, the Netherlands*	Planning
R Matubatuba, C De Meyer-Heydenrych	Developing an intention to use amongst non-users of the Bus Rapid Transit (BRT) System: An emerging market perspective*	Planning
C Vergel-Tovar, J Leape, M Villegas Carrasquilla, M Peñas Arana, D Toro Gonzalez, L Canon Rubiano, E Salas Barón, P Martinez	Mapping the transit network of greater Cartagena with mobile phones: Coverage, accessibility, and informality	Planning
T Kerzhner	Formalization of East Jerusalem public transport: Mobility, politics and planning	Planning
M Singh, Y Zhang, W Cheng, Y Li, E Clay	Effect of transit-oriented design on pedestrian and cyclist safety using bivariate spatial models*	Planning
C Kyriakidis, I Chatziioannou, F Iliadis, A Nikitas, E Bakogiannis	Evaluating the public acceptance of sustainable mobility interventions responding to Covid-19: The case of the Great Walk of Athens and the importance of citizen engagement*	Planning
Z Xing, Z Zhang, J Guo, Y Qin, L Jia	Rail train operation energy-saving optimization based on improved brute-force search	Planning
R Niu, S You	Research on run-time risk evaluation method based on operating scenario data for autonomous train	Planning
S Sharif Azadeh, J van der Zee, M Wagenvoort	Choice-driven service network design for an integrated fixed line and demand responsive mobility system	Planning
P Kumar, A Khani	Planning of integrated mobility-on-demand and urban transit networks	Planning
V Tuan, N Van Truong, S Tetsuo, N An	Public transport service quality: Policy prioritization strategy in the importance-performance analysis and the three-factor theory frameworks*	Planning
S Luo, S He, S Grant-Muller, L Song	Influential factors in customer satisfaction of transit services: Using crowdsourced data to capture the heterogeneity across individuals, space and time	Planning
P Chen, X Yang	Revisit employer-based travel demand management: A longitudinal analysis	Planning
Y Wang, Z Guan, Q Zhang	Railway opening and carbon emissions in distressed areas: Evidence from China's state-level poverty-stricken counties*	Planning
A Najmi, T Rashidi, T Waller	A multimodal multi-provider market equilibrium model: A game-theoretic approach*	Planning
R Yin, X Liu, N Zheng, Z Liu	Simulation-based analysis of second-best multimodal network capacity	Planning



E Almlöf, X Zhao, A Pernestål, E Jenelius, M Nybacka	Frameworks for assessing societal impacts of automated driving technology*	Planning
V Mourtakos, M Oikonomou, P Kopelias, E Vlahogianni, G Yannis	Impacts of autonomous on-demand mobility service: A simulation experiment in the City of Athens	Planning
J Barnes, L Brown, A Morris, N Stuttard	Bus passenger injury prevention: Learning from onboard incidents*	Planning
J Ingvardson, M Thorhauge, S Kaplan, O Nielsen, S Raveau	Incorporating psychological needs in commute mode choice modelling: a hybrid choice framework	Ridership
Y Zhu	Can bicycle sharing mitigate vehicle emission in Chinese large cities? Estimation based on mode shift analysis	Ridership
X Dong, E Guerra, R Daziano	Impact of TNC on travel behavior and mode choice: a comparative analysis of Boston and Philadelphia	Ridership
F Gao, J Tang, Z Li	Effects of spatial units and travel modes on urban commuting demand modeling	Ridership
U Berggren, C D'Agostino, H Svensson, K Brundell-Freij	Intrapersonal variability in public transport path choice due to changes in service reliability*	Ridership
Z An, E Heinen, D Watling	Multimodal travel behaviour, attitudes, and cognitive dissonance*	Ridership
Z Mao, F Wang, D Wang	Attitude and accessibility on transit users' travel satisfaction: A person-environment fit perspective	Ridership
W Wu, R Sun, Y Yun, Y Xiao, X Zhu	Excess commuting, rail access and subjective wellbeing	Ridership
L Scholl, F Bedoya, O Sabogal-Cardona, D Oviedo	Making the links between ride-hailing and public transit ridership: Impacts in medium and large Colombian cities*	Ridership
M Cahigas, Y Prasetyo, S Persada, A Ong, R Nadlifatin	Understanding the perceived behavior of public utility bus passengers during the era of COVID-19 pandemic in the Philippines: Application of social exchange theory and theory of planned behavior	Ridership
E Barri, S Farber, H Jahanshahi, E Beyazit	Understanding transit ridership in an equity context through a comparison of statistical and machine learning algorithms	Ridership
S Maljaee, M Khadem Sameni	Investigating factors affecting university students' use of subway before and after COVID-19 outbreak: A case study in Tehran*	Ridership
F Gao, L Yang, C Han, J Tang, Z Li	A network-distance-based geographically weighted regression model to examine spatiotemporal effects of station-level built environments on metro ridership	Ridership
Y Shin, D Kim, E Kim	Activity-based TOD typology for seoul transit station areas using smart-card data	Ridership
C Busco, F González, P Carmona, A Cancino, B Alonso	Social exclusion and the public bus system in Santiago, Chile*	Ridership
Y Liu, T Feng, Z Shi, M He	Understanding the route choice behaviour of metro-bikeshare users	Ridership
S Peftitsi, E Jenelius, O Cats	Modeling the effect of real-time crowding information (RTCI) on passenger distribution in trains*	Ridership
R van Kuijk, G Correia, N van Oort, B van Arem	Preferences for first and last mile shared mobility between stops and activity locations: A case study of local public transport users in Utrecht, the Netherlands*	Ridership
Y Wang, Y Gao	Travel satisfaction and travel well-being: Which is more related to travel choice behaviour in the post COVID-19 pandemic? Evidence from public transport travellers in Xi'an, China*	Ridership
S Hossain, P Loa, F Ong, K Habib	The determinants of commute mode usage frequency of post-secondary students in the Greater Toronto and Hamilton Area	Ridership
P Navarrete-Hernandez, L Rennert, A Balducci	An evaluation of the impact of COVID-19 safety measures in public transit spaces on riders' Worry of virus contraction*	Ridership
L Böcker, L Olsson, T Priya Uteng, M Friman	Pandemic impacts on public transport safety and stress perceptions in Nordic cities*	Ridership
S Qiao, A Yeh	Is ride-hailing competing or complementing public transport? A perspective from affordability*	Ridership
S Guo, T Pei, X Wang, C Song, X Chen, J Chen, H Shu, Y Liu, M Wu	Equity of subway accessibility: A perspective from work commute trips	Ridership
H Huang, J Mao, W Lu, G Hu, L Liu	DEASeq2Seq: An attention based sequence to sequence model for short-term metro passenger flow prediction within decomposition-ensemble strategy*	Ridership
I Mariñas-Collado, A Sipols, M Santos-Martin, E Frutos-Bernal	Forecasting using dynamic factor models with cluster structure at Barcelona subway stations	Ridership

Y Huang, H Gan, P Jing, X Wang	Analysis of park and ride mode choice behavior under multimodal travel information service	Ridership
C Ding, T Liu, X Cao, L Tian	Illustrating nonlinear effects of built environment attributes on housing renters' transit commuting	Land use
J Fang, X Yan, I Bejleri, C Chen	Which trip destination matters? Estimating the influence of the built environment on mode choice for home-based complex tours	Land use
Y Jin, P Li, Z Chen, S Bharule, N Jia, J Chen, X Song, R Shibasaki, H Zhang	Understanding railway usage behavior with ten million GPS records	Land use
L Yang, Y Liang, B He, H Yang, D Lin	COVID-19 moderates the association between to-metro and by-metro accessibility and house prices*	Land use
J Wang, J Cao, K Liu, D Wang	Exploring the nonlinear effects of built environment characteristics on customized bus service*	Land use
C Ding, Y Song, X Qiao, Y Zhang, B Yu, X Zhang	Integrating land use and greenway network for metro station area transit-oriented development	Land use
Y Yang, C Zhong, Q Gao	An extended node-place model for comparative studies of transit-oriented development*	Land use
F Wang, Y Zheng, W Wu, D Wang	The travel, equity and wellbeing impacts of transit-oriented development in Global South	Land use
D Remme, S Sareen, H Haarstad	Who benefits from sustainable mobility transitions? Social inclusion, populist resistance and elite capture in Bergen, Norway*	Policy
D Oviedo, C Cavoli, C Levy, B Koroma, J Macarthy, O Sabogal, F Arroyo, P Jones	Accessibility and sustainable mobility transitions in Africa: Insights from Freetown*	Policy
D Zhang	Understanding mobility inequality through the lens of economic welfare: The difference in willingness-to-pay and actual fare matters*	Policy
Q David, M Kilani	Transport policies in polycentric cities	Policy
J Pritchard, A Zanchetta, K Martens	A new index to assess the situation of subgroups, with an application to public transport disadvantage in US metropolitan areas	Policy
L Nerhagen, D Brandt, R Mortazavi	Use of public transport as a means to reach national climate objectives - On the importance of accounting for spatial differences and costs*	Policy
A Abass	Prioritised seating arrangement on public transport: A focus on the disadvantaged group	Policy
S Awaworyi Churchill, I Koomson, M Munyanyi	Transport poverty and obesity: The mediating roles of social capital and physical activity*	Policy
N Zhang, D Graham, P Bansal, D Hörcher	Detecting metro service disruptions via large-scale vehicle location data*	Technology
J Liu, J Li, Y Chen, S Lian, J Zeng, M Geng, S Zheng, Y Dong, Y He, P Huang, Z Zhao, X Yan, Q Hu, L Wang, D Yang, Z Zhu, Y Sun, W Shang, D Wang, L Zhang, X Chen	Multi-scale urban passenger transportation CO2 emission calculation platform for smart mobility management	Technology
M Prati, M Costagliola, A Unich, A Mariani	Emission factors and fuel consumption of CNG buses in real driving conditions	Technology
S Su, J She, D Wang, S Gong, Y Zhou	A stabilized virtual coupling scheme for a train set with heterogeneous braking dynamics capability*	Technology
C Roncoli, E Chandakas, I Kaparias	Estimating on-board passenger comfort in public transport vehicles using incomplete automatic passenger counting data*	Technology
Z Khan, W He, M Menéndez	Application of modular vehicle technology to mitigate bus bunching*	Technology
J Zeng, Y Yu, Y Chen, D Yang, L Zhang, D Wang	Trajectory-as-a-Sequence: A novel travel mode identification framework	Technology
D Xie, Y Yu, G Zhou, X Zhao, Y Chen	Collaborative optimization of electric bus line scheduling with multiple charging modes*	Operations
R Coulaud, C Keribin, G Stoltz	Modeling dwell time in a data-rich railway environment: With operations and passenger flows data*	Operations
X Wang, Y Lv, H Sun, G Xu, Y Qu, J Wu	A simulation-based metro train scheduling optimization incorporating multimodal coordination and flexible routing plans*	Operations
N Harris, A Barron, J Ehizele	Understanding the variability in station stop times	Operations
K Gkiotsalitis, O Cats, T Liu	A review of public transport transfer synchronisation at the real-time control phase*	Operations
L Ravensbergen, R Wasfi, M Van Liefferinge, I Ehrlich, S Prince, G Butler, Y Kestens, A El-Geneidy	Associations between Light Rail Transit and physical activity: a systematic review*	Literature review

S Rashidi, S Ataeian, P Ranjitkar	Estimating bus dwell time: A review of the literature	Literature review
K Wang, X Qian, D Fitch, Y Lee, J Malik, G Circella	What travel modes do shared e-scooters displace? A review of recent research findings*	Literature review
I Alhassan, B Matthews, J Toner, Y Susilo	Public transport users' willingness-to-pay for a multi-county and multi-operator integrated ticket: Valuation and policy implications	Economics
K Odolinski, A Smith, P Wheat, J Nilsson, C Dheilly	Damage or no damage from traffic: Re-examining marginal cost pricing for rail signalling maintenance*	Economics
L Zhang, Z Liu, W Wang, B Yu	Long-term charging infrastructure deployment and bus fleet transition considering seasonal differences	Infrastructure
S Shao, Z Tan, Z Liu, W Shang	Balancing the GHG emissions and operational costs for a mixed fleet of electric buses and diesel buses	Infrastructure
Z Wang, E Quaglietta, M Bartholomeus, R Goverde	Assessment of architectures for Automatic Train Operation driving functions*	Organisation
C Sørensen, L Hansson, T Rye	The role of meta-governance in public transport systems: A comparison of major urban regions in Denmark and England*	Organisation

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