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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

2-2022

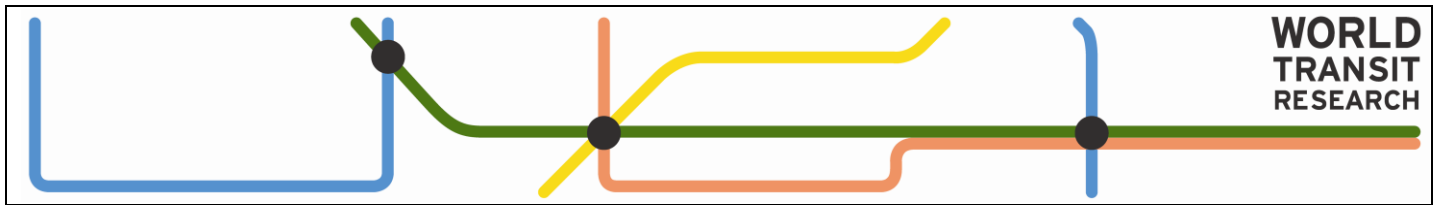
World Transit Research February 2022 Newsletter

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 8,831 research reports/papers. Some 93 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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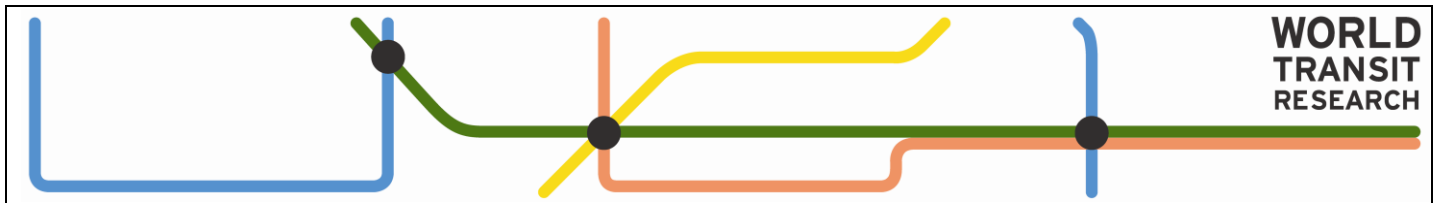
SUGGESTIONS WELCOMED

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
E Deschaintres, C Morency, M Trépanier	Measuring Changes in Multimodal Travel Behavior Resulting from Transport Supply Improvement	Planning
J Cai, Y Liang	System Dynamics Modeling for a Public–Private Partnership Program to Promote Bicycle–Metro Integration Based on Evolutionary Game	Planning
J Zhou, H Koutsopoulos	Virus Transmission Risk in Urban Rail Systems: Microscopic Simulation-Based Analysis of Spatio-Temporal Characteristics	Planning
H Bi, Z Ye, Y Zhang	Analysis of the Integration Usage Patterns of Multiple Shared Mobility Modes and Metro System	Planning
S Han, E Lee, D Kim	Multi-Objective Optimization for Skip-Stop Strategy Based on Smartcard Data Considering Total Travel Time and Equity	Planning
A Ziedan, C Crossland, C Brakewood, P Pugliese, H Ooi	Investigating the Preferences of Local Residents toward a Proposed Bus Network Redesign in Chattanooga, Tennessee*	Planning
J Mayaud, F Ward, J Andrews	Microtransit Has the Potential to Flip Transit on Its Head	Planning
P Weissensteiner, G Stettinger, K Tieber, K Rehri	Virtual Risk Assessment for the Deployment of Autonomous Shuttles	Planning
H Nguyen, A Chow, C Ying	Pareto routing and scheduling of dynamic urban rail transit services with multi-objective cross entropy method	Planning
S Fournier, E Hülse, É Pinheiro	A*-guided heuristic for a multi-objective bus passenger Trip Planning Problem	Planning
V Degeler, L Heydenrijk-Ottens, D Luo, N van Oort, H van Lint	Unsupervised approach towards analysing the public transport bunching swings formation phenomenon*	Planning
U Berggren, K Brundell-Freij, H Svensson, A Wretstrand	Effects from usage of pre-trip information and passenger scheduling strategies on waiting times in public transport: an empirical survey based on a dedicated smartphone application*	Planning
R Arbex, C da Cunha, R Speicys	Before-and-after evaluation of a bus network improvement using performance indicators from historical smart card data	Planning
A Aboudina, A Itani, E Diab, S Srikukenthiran, A Shalaby	Evaluation of bus bridging scenarios for railway service disruption management: a users' delay modelling tool	Planning
P Sessa, V De Martinis, A Bomhauer-Beins, U Weidmann, F Corman	A hybrid stochastic approach for offline train trajectory reconstruction	Planning
E Asimeng	Bus rapid transit implementation with the inclusion of incumbent paratransit operators in African cities: lessons from Accra*	Planning
M Aljoufie	Toward an effective analysis of public transportation demand factors in car-dependent cities: case of Makkah City, Saudi Arabia*	Planning
E Skartland	How interventions in master plans affect public transport competitiveness versus cars: a case study of two small and two medium-sized city regions*	Planning
Y Huo, J Zhao, X Li, C Guo	Using Fuzzy Clustering of User Perception to Determine the Number of Level-of-Service Categories for Bus Rapid Transit*	Planning
C Busco, F González, Y Jaqueih, F Jiménez, B Alonso	Understanding Transantiago Users' Motivations for Paying or Evading Payment of Bus Fares*	Planning
G Larue, C Watling	Prevalence and dynamics of distracted pedestrian behaviour at railway level crossings: Emerging issues	Planning
L Brotcorne, P Escalona, B Fortz, M Labbé	Fare inspection patrols scheduling in transit systems using a Stackelberg game approach	Planning
X Luo, W Gu, W Fan	Joint design of shared-bike and transit services in corridors	Planning
J Trepac Borecka, N Bešinović	Scheduling multimodal alternative services for managing infrastructure maintenance possessions in railway networks*	Planning
D Leffler, W Burghout, E Jenelius, O Cats	Simulation of fixed versus on-demand station-based feeder operations*	Planning
R Auad, K Dalmeijer, C Riley, T Santanam, A Trasatti, P Van Hentenryck, H Zhang	Resiliency of on-demand multimodal transit systems during a pandemic*	Planning
D Sheng, Q Meng, Z Li	Optimal quality incentive scheme design in contracting out public bus services	Planning
M Eltvéd, P Lemaitre, N Petersen	Estimation of transfer walking time distribution in multimodal public transport systems based on smart card data	Planning



Y Lv, D Zhi, H Sun, G Qi	Mobility pattern recognition based prediction for the subway station related bike-sharing trips	Planning
H Bao, J Ng	Tradable parking permits as a transportation demand management strategy: A behavioural investigation*	Planning
K Guo, L Zhang	Simulation-based passenger evacuation optimization in metro stations considering multi-objectives*	Planning
T Chen, Y Lu, X Fu, N Sze, H Ding	A resampling approach to disaggregate analysis of bus-involved crashes using panel data with excessive zeros*	Planning
M Chiscano	Improving the design of urban transport experience with people with disabilities	Planning
L Ravensbergen, K Newbold, R Ganann, C Sinding	‘Mobility work’: Older adults’ experiences using public transportation	Planning
A Fielbaum, S Jara-Diaz, A Gschwender	Lines spacing and scale economies in the strategic design of transit systems in a parametric city	Planning
L Frank, E Fox, J Ulmer, J Chapman, L Braun	Quantifying the health benefits of transit-oriented development: Creation and application of the San Diego Public Health Assessment Model (SD-PHAM)*	Planning
S Kirtonia, Y Sun	Evaluating rail transit’s comparative advantages in travel cost and time over taxi with open data in two U.S. cities*	Planning
M Ashraf, M Hossen, K Dey, S El-Dabaja, M Aljeri, B Naik	Impacts of Bike Sharing Program on Subway Ridership in New York City	Ridership
M Asim, A Weiss, L Kattan, S Wirasinghe	Transit Users’ Mode Choice Behavior During Light Rail Transit Short-Term Planned Service Disruption*	Ridership
N Dent, L Hawa, J DeWeese, R Wasfi, Y Kestens, A El-Geneidy	Market-Segmentation Study of Future and Potential Users of the New Réseau Express Métropolitain Light Rail in Montreal, Canada*	Ridership
X You, L Zhu, Z Liu, Y Huang	Experimental Study on the Relationship between Fatigue and Unsafe Behavior of Urban Rail Transit Drivers	Ridership
E Lee, K Kim, S Kho, D Kim, S Cho	Estimating Express Train Preference of Urban Railway Passengers Based on Extreme Gradient Boosting (XGBoost) using Smart Card Data	Ridership
W Riggs, L Yudowitz	Snap Judgements and Availability Bias in Travel Decisions	Ridership
K Jiang, C Shao, Z Feng, Q Yue, Z Yu, S Zhu, Z Huang	The impact of E-bus satisfaction on driving behaviour: A questionnaire-based study on E-bus drivers	Ridership
N Nadimi, A Sangdeh, A Amiri	Deciding about the effective factors on improving public transit popularity among women in developing countries	Ridership
F Meinherz, L Fritz	‘Ecological concerns weren’t the main reason why I took the bus, that association only came afterwards’: on shifts in meanings of everyday mobility*	Ridership
A Karner	People-focused and Near-term Public Transit Performance Analysis*	Ridership
S Berrebi, S Joshi, K Watkins	Cross-Checking Automated Passenger Counts for Ridership Analysis*	Ridership
X Yan, W Yang, X Zhang, Y Xu, I Bejleri, X Zhao	A spatiotemporal analysis of e-scooters’ relationships with transit and station-based bikeshare	Ridership
J Arriagada, M Munizaga, C Guevara, C Prato	Unveiling route choice strategy heterogeneity from smart card data in a large-scale public transport network*	Ridership
J Weschke, F Bahamonde-Birke, K Gade, E Kazagli	Asking the Wizard-of-Oz: How experiencing autonomous buses affects preferences towards their use for feeder trips in public transport	Ridership
A Ziedan, N Shah, Y Wen, C Brakewood, C Cherry, J Cole	Complement or compete? The effects of shared electric scooters on bus ridership*	Ridership
N Zeiske, E van der Werff, L Steg	The effects of a financial incentive on motives and intentions to commute to work with public transport in the short and long term*	Ridership
T Monahan, C Lamb	Transit’s downward spiral: Assessing the social-justice implications of ride-hailing platforms and COVID-19 for public transportation in the US*	Ridership
P Meredith-Karam, H Kong, S Wang, J Zhao	The relationship between ridehailing and public transit in Chicago: A comparison before and after COVID-19	Ridership
Z Cserdi, Z Kenesei	Attitudes to forced adoption of new technologies in public transportation services*	Ridership
P da Silva, S Kaplan, P Taco	Service climate antecedents of transit passenger complaints and temporary opt-out: The case study of Brasília	Ridership
C Woo, K Cao, J Zarnikau, T Yip, A Chow	What moves Hong Kong’s train ridership?	Ridership

E Lunke, N Fearnley, J Aarhaug	Public transport competitiveness vs. the car: Impact of relative journey time and service attributes*	Ridership
S Chakrabarti	Passively wait for gridlock, or proactively invest in service? Strategies to promote car-to-transit switches among aspirational urbanites in rapidly developing contexts*	Ridership
A Itani, A Shalaby	Assessing the Bus Bridging Effectiveness on the Operational Resilience of the Subway Service in Toronto*	Operations
W Yan, H Yao, L Chen, H Rayaprolu, E Moylan	Impacts of School Reopening on Variations in Local Bus Performance in Sydney	Operations
S Moon, S Cho, D Kim	Designing Multiple Short-Turn Routes to Mitigate the Crowding on a Bus Network*	Operations
G Matos, L Albino, R Saldanha, E Morgado	Solving periodic timetabling problems with SAT and machine learning	Operations
Z Han, B Han, D Li, S Ning, R Yang, Y Yin	Train timetabling in rail transit network under uncertain and dynamic demand using Advanced and Adaptive NSGA-II	Operations
S Binder, M Maknoon, S Azadeh, M Bierlaire	Passenger-centric timetable rescheduling: A user equilibrium approach*	Operations
R Grahn, S Qian, C Hendrickson	Improving the performance of first- and last-mile mobility services through transit coordination, real-time demand prediction, advanced reservations, and trip prioritization	Operations
J Godachevich, A Tirachini	Does the measured performance of bus operators depend on the index chosen to assess reliability in contracts? An analysis of bus headway variability	Operations
M Harirchian, M Azadi, S Kermanshahi, M Bashirinia, M Ghasri	Revisiting Transit-Oriented Development Evaluation for Urban Master Plans in the Context of Developing Countries	Land use
L Wang, T Miwa, M Jiang, T Morikawa	Heterogeneous residential distribution changes and spillover effects by railway projects: The case study of Nagoya, Japan	Land use
X Wu, Y Lu, Y Gong, Y Kang, L Yang, Z Gou	The impacts of the built environment on bicycle-metro transfer trips: A new method to delineate metro catchment area based on people's actual cycling space	Land use
A Moreno-Monroy, F Ramos	The impact of public transport expansions on informality: The case of the São Paulo Metropolitan Region*	Land use
L Guzman, H Enríquez, P Hessel	BRT system in Bogotá and urban effects: More residential land premiums?*	Land use
S Oh, N Chen	Do public transit and agglomeration economies collectively enhance low-skilled job accessibility in Portland, OR?*	Land use
D Arias, K Todd, J Krieger, S Maddox, P Haley, K Watkins, S Berrebi	Using GTFS to Calculate Travel Time Savings Potential of Bus Preferential Treatments	Infrastructure
M Bayrok, S Guler, P Schonfeld	Implementation Sequence Optimization for Dedicated Bus Lane Projects	Infrastructure
J Ye, Y Jiang, J Chen, Z Liu, R Guo	Joint optimisation of transfer location and capacity for a capacitated multimodal transport network with elastic demand: a bi-level programming model and paradoxes*	Infrastructure
M Alvo, G Angulo, M Klapp	An exact solution approach for an electric bus dispatch problem	Infrastructure
A Zhang, T Li, Y Zheng, X Li, M Abdullah, C Dong	Mixed electric bus fleet scheduling problem with partial mixed-route and partial recharging	Infrastructure
D Hensher	The case for negotiated contracts under the transition to a green bus fleet	Organisation
J Odeck, H Høyem	The impact of competitive tendering on operational costs and market concentration in public transport: The Norwegian car ferry services	Organisation
X Bai, Z Jin, Y Chiu	Performance evaluation of China's railway passenger transportation sector	Organisation
A Karner, K Levine	Equity-Advancing Practices at Public Transit Agencies in the United States*	Policy
M Henriksson, J Berg, C Lindkvist, K Lucas	Questioning mobility ideals – the value of proximity for residents in socially deprived urban areas in Sweden*	Policy
D Yao, L Xu, C Zhang, J Li	Revisiting the interactions between bus service quality, car ownership and mode use: A case study in Changzhou, China	Policy
C Krelling, M Badami	Cost-effectiveness analysis of compressed natural gas implementation in the public bus transit fleet in Delhi, India*	Economics
D Gong, L Ren, S Liu, X Yan	Compensation and coordination mechanisms on China's railway public transportation service*	Economics

J van Mil, T Leferink, J Annema, N van Oort	Insights into factors affecting the combined bicycle-transit mode*	Literature review
T Liu, O Cats, K Gkiotsalitis	A review of public transport transfer coordination at the tactical planning phase*	Literature review
Y Zhao, J Ke	The impact of shared mobility services on housing values near subway stations	Mode
B Djordjević, A Mane, E Krmac	Analysis of dependency and importance of key indicators for railway sustainability monitoring: A new integrated approach with DEA and Pearson correlation*	Mode
L He, M Trépanier, B Agard	Space-time classification of public transit smart card users' activity locations from smart card data	Technology
M Repoux, N Geroliminis, M Kaspi	Operational analysis of an innovative semi-autonomous on-demand transportation system*	Technology

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