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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

10-2021

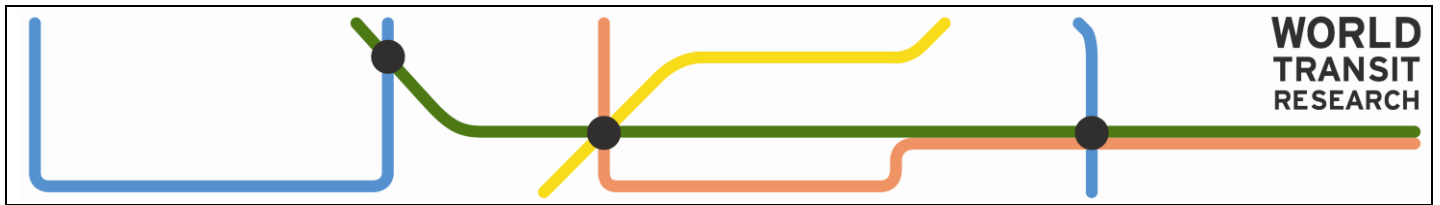
World Transit Research October 2021 Newsletter

Institute of Transport Studies Monash University

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World Transit Research

October 2021 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 8,635 research reports/papers. Some 95 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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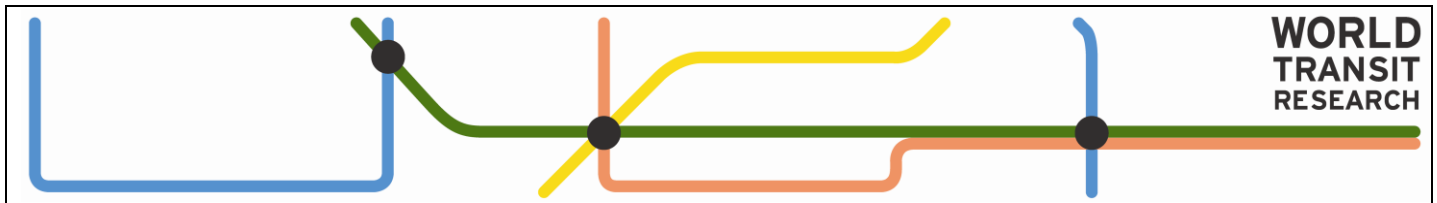
SUGGESTIONS WELCOMED

If you have any queries or suggestions on how to improve our publication, we would love to hear from you at: enquiries@worldtransitresearch.info

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
T Zuo, H Wei, N Chen	Incorporating Low-Stress Bicycling Connectivity into Expanded Transit Service Coverage	Planning
C Iliopoulou, K Kepaptsoglou	Robust electric transit route network design problem (RE-TRNDP) with delay considerations: Model and application	Planning
P Li, Y Zhang, Y Zhang, K Zhang	Prediction of electric bus energy consumption with stochastic speed profile generation modelling and data driven method based on real-world big data	Planning
S Jayatilake, J Bunker, A Bhaskar, M Miska	Time–space analysis to evaluate cell-based quality of service in bus rapid transit station platforms through passenger-specific area*	Planning
P Sahu, B Mehran, S Mahapatra, S Sharma	Spatial data analysis approach for network-wide consolidation of bus stop locations	Planning
J Pätzold	Finding robust periodic timetables by integrating delay management	Planning
U Petruccioli, A Racina	Feeder-trunk and direct-link schemes for public transit: a model to evaluate the produced accessibility	Planning
S Er-Rbib, G Desaulniers, I Elhallaoui, P Munroe	Preference-based and cyclic bus driver rostering problem with fixed days off	Planning
H Pan, Z Liu, L Yang, Z Liang, Q Wu, S Li	A column generation-based approach for integrated vehicle and crew scheduling on a single metro line with the fully automatic operation system by partial supervision	Planning
Z Chen, X Li	Designing corridor systems with modular autonomous vehicles enabling station-wise docking: Discrete modeling method	Planning
C Meloni, M Pranzo, M Samà	Risk of delay evaluation in real-time train scheduling with uncertain dwell times	Planning
M Martello, A Whittle, J Keenan, F Salvucci	Evaluation of climate change resilience for Boston’s rail rapid transit network	Planning
H Luo, Z Zhang, K Gkritza, H Cai	Are shared electric scooters competing with buses? a case study in Indianapolis	Planning
J Mandhani, J Nayak, M Parida	Establishing service quality interrelations for Metro rail transit: Does gender really matter?	Planning
W Sun, J Schmöcker, K Fukuda	Estimating the route-level passenger demand profile from bus dwell times	Planning
A Shan, N Hoang, K An, H Vu	A framework for railway transit network design with first-mile shared autonomous vehicles	Planning
X Xu, C Li, Z Xu	Train timetabling with stop-skipping, passenger flow, and platform choice considerations	Planning
H Ren, Y Song, J Long, B Si	A new transit assignment model based on line and node strategies	Planning
J Wu, B Kulcsár, Selpi, X Qu	A modular, adaptive, and autonomous transit system (MAATS): A in-motion transfer strategy and performance evaluation in urban grid transit networks	Planning
H Ding, J Zhang	Dynamic associations between temporal behavior changes caused by the COVID-19 pandemic and subjective assessments of policymaking: A case study in Japan	Planning
R Zhang, J Zhang	Long-term pathways to deep decarbonization of the transport sector in the post-COVID world	Planning
B Majumdar, M Jayakumar, P Sahu, D Potoglou	Identification of key determinants of travel satisfaction for developing policy instrument to improve quality of life: An analysis of commuting in Delhi	Planning
Y Liao	Ride-sourcing compared to its public-transit alternative using big trip data*	Planning
A Tardivo, A Zanuy, C Martín	COVID-19 Impact on Transport: A Paper from the Railways’ Systems Research Perspective	Planning
J Mattson, D Peterson	Measuring Benefits of Rural and Small Urban Transit in Greater Minnesota	Planning
T Bills, A Carrel	Transit Accessibility Measurement Considering Behavioral Adaptations to Reliability	Planning
J Arias, C Bachmann	Evaluating the Role and Evolution of Factors Influencing Rapid Transit Planning in Ecuador	Planning



H Soule, A Davis, A Krum, Y Wang, R Ke, D Valadez, D Sellers, S Roberts, L Fischer, J Lutin	Risk Mitigation Planning for Revenue Service Testing of Bus Automated Emergency Braking	Planning
P Kumar, A Khani, E Lind, J Levin	Estimation and Mitigation of Epidemic Risk on a Public Transit Route using Automatic Passenger Count Data	Planning
E Hassannayebi, A Sajedinejad, A Kardannia, M Shakibayifar, H Jafari, E Mansouri	Simulation-optimization framework for train rescheduling in rapid rail transit	Planning
N Molyneaux, R Scarinci, M Bierlaire	Design and analysis of control strategies for pedestrian flows	Planning
M Yap, O Cats	Predicting disruptions and their passenger delay impacts for public transport stops	Planning
J Zoellick, L Kluy, S Rössle, J Witte, L Schenk, A Kuhlmeier, S Blüher	I'm curious, I'm open to it, I test it, I trust it! A focus groups study to understand a-priori trust in automated buses	Planning
X Chen, W Zhang, X Guo, Z Liu, S Wang	An improved learning-and-optimization train fare design method for addressing commuting congestion at CBD stations	Planning
C Fiori, M Montanino, S Nielsen, M Seredynski, F Viti	Microscopic energy consumption modelling of electric buses: model development, calibration, and validation	Planning
Y Chen, Y Zhang, R Sun	Data-driven estimation of energy consumption for electric bus under real-world driving conditions	Planning
Y Liu, Y Ouyang	Mobility service design via joint optimization of transit networks and demand-responsive services	Planning
M Cheranchery, B Maitra	Improving quality of ordinary bus service in Kolkata city: Integrating conflicting requirements of users and transit operator	Planning
R Tamakloe, S Lim, E Sam, S Park, D Park	Investigating factors affecting bus/minibus accident severity in a developing country for different subgroup datasets characterised by time, pavement, and light conditions	Planning
B Barabino, M Bonera, G Maternini, A Olivo, F Porcu	Bus crash risk evaluation: An adjusted framework and its application in a real network	Planning
D Esztergár-Kiss, Y Shulha, A Aba, T Tettamanti	Promoting sustainable mode choice for commuting supported by persuasive strategies*	Planning
M Rizki, T Joewono, D Dharmowijoyo, P Belgiawan	Does multitasking improve the travel experience of public transport users? Investigating the activities during commuter travels in the Bandung Metropolitan Area, Indonesia	Ridership
M Haider, R Papri	Cost of traffic congestion in Dhaka Metropolitan City	Ridership
P Humagain, J De Vos, P Singleton	Analyzing travel captivity by measuring the gap in travel satisfaction between chosen and alternative commute modes	Ridership
S Li, H Duan, T Smith, H Hu	Time-varying accessibility to senior centers by public transit in Philadelphia	Ridership
Q Zhang, X Liu, S Spurgeon, D Yu	A two-layer modelling framework for predicting passenger flow on trains: A case study of London underground trains	Ridership
P Loa, S Hossain, S Mashrur, Y Liu, K Wang, F Ong, K Habib	Exploring the impacts of the COVID-19 pandemic on modality profiles for non-mandatory trips in the Greater Toronto Area	Ridership
D Magalhães, C Rivera-Gonzalez	Car users' attitudes towards an enhanced bus system to mitigate urban congestion in a developing country	Ridership
L Hu, N Klein, M Smart	Comparing immigrant commute travel adaptation across and within racial/ethnic groups	Ridership
B van Wee, F Witlox	COVID-19 and its long-term effects on activity participation and travel behaviour: A multiperspective view*	Ridership
M Ma, W Liu, X Li, F Zhang, S Jian, V Dixit	Quantifying service-reliability-based day-to-day evolution of travel choices in public transit systems with smart transit card data	Ridership
W Hua, X Feng, C Ding, Z Ruan	Bayesian network modeling analyzes of perceived urban rail transfer time	Ridership
J De Vos, L Cheng, F Witlox	Do changes in the residential location lead to changes in travel attitudes? A structural equation modeling approach*	Ridership
L González, J Perdiguero, À Sanz	Impact of public transport strikes on traffic and pollution in the city of Barcelona*	Ridership
S Carrese, E Cipriani, C Colombaroni, U Crisalli, G Fusco, A Gemma, N Isaenko, L Mannini, M Petrelli, V Busillo, S Saracchi	Analysis and monitoring of post-COVID mobility demand in Rome resulting from the adoption of sustainable mobility measures	Ridership
M Sameni, A Tilenoie, N Dini	Will modal shift occur from subway to other modes of transportation in the post-corona world in developing countries?	Ridership

E Echaniz, A Rodríguez, R Cordera, J Benavente, B Alonso, R Sañudo	Behavioural changes in transport and future repercussions of the COVID-19 outbreak in Spain*	Ridership
M Parker, M Li, M Bouzaghane, H Obeid, D Hayes, K Frick, D Rodríguez, R Sengupta, J Walker, D Chatman	Public transit use in the United States in the era of COVID-19: Transit riders' travel behavior in the COVID-19 impact and recovery period*	Ridership
M Xin, A Shalaby, S Feng, H Zhao	Impacts of COVID-19 on urban rail transit ridership using the Synthetic Control Method*	Ridership
S Luo, S He	Understanding gender difference in perceptions toward transit services across space and time: A social media mining approach	Ridership
B Jin, X Feng, Q Wang, P Sun, Q Fang	Train Scheduling Method to Reduce Substation Energy Consumption and Peak Power of Metro Transit Systems	Operations
Y Wang, S Zhu, A D'Ariano, J Yin, J Miao, L Meng	Energy-efficient timetabling and rolling stock circulation planning based on automatic train operation levels for metro lines	Operations
K Huang, F Liao, Z Gao	An integrated model of energy-efficient timetabling of the urban rail transit system with multiple interconnected lines	Operations
M Estrada, J Mension, M Salicrú	Operation of transit corridors served by two routes: Physical design, synchronization, and control strategies	Operations
Y Mei, W Gu, M Cassidy, W Fan	Planning skip-stop transit service under heterogeneous demands	Operations
M Sheffield, G Schultz, D Bassett, D Eggett	Sensitivity Analysis of the Transit Signal Priority Requesting Threshold and the Impact on Bus Performance and General Traffic	Operations
S Long, X Luan, F Corman	Passenger-oriented rescheduling of trains and rolling stock for handling large passenger demand: linearized models with train capacity constraint*	Operations
S Peftitsi, E Jenelius, O Cats	Evaluating crowding in individual train cars using a dynamic transit assignment model*	Operations
J Soza-Parra, J Muñoz, S Raveau	Factors that affect the evolution of headway variability along an urban bus service	Operations
J Xie, J Zhang, K Sun, S Ni, D Chen	Passenger and energy-saving oriented train timetable and stop plan synchronization optimization model	Operations
A Chow, Z Su, E Liang, R Zhong	Adaptive signal control for bus service reliability with connected vehicle technology via reinforcement learning	Technology
P Noursalehi, H Koutsopoulos, J Zhao	Predictive decision support platform and its application in crowding prediction and passenger information generation	Technology
H Hamedmoghadam, H Vu, M Jalili, M Saberi, L Stone, S Hoogendoorn	Automated extraction of origin-destination demand for public transportation from smartcard data with pattern recognition	Technology
D Lei, X Chen, L Cheng, L Zhang, P Wang, K Wang	Minimum entropy rate-improved trip-chain method for origin-destination estimation using smart card data	Technology
R Singh, D Graham, D Hörcher, R Anderson	The boundary between random and non-random passenger arrivals: Robust empirical evidence and economic implications	Technology
T Tang, A Fonzone, R Liu, C Choudhury	Multi-stage deep learning approaches to predict boarding behaviour of bus passengers	Technology
J Tang, F Gao, C Han, X Cen, Zhitao Li	Uncovering the spatially heterogeneous effects of shared mobility on public transit and taxi	Technology
Z Cheng, M Trépanier, L Sun	Probabilistic model for destination inference and travel pattern mining from smart card data	Technology
N Motlagh, M Zaidan, P Fung, E Lagerspetz, K Aula, S Varjonen, M Siekkinen, A Rebeiro-Hargrave, T Petäjä, Y Matsumi, M Kulmala, T Hussein, P Nurmi, S Tarkoma	Transit pollution exposure monitoring using low-cost wearable sensors*	Technology
A Nelson, R Hibberd	Influence of Rail Transit on Development Patterns in the Mountain Mega-Region with a Surprise and Implications for Rail Transit and Land-Use Planning	Land use
C Moon-Miklaucic, A Amos, P Mehta, L Betti, H Evers	10 Questions to Ask About Planning, Financing and Implementing Transit Oriented Development Strategies*	Land use
L Aston, G Currie, M Kamruzzaman, A Delbosc, T Brands, N van Oort, D Teller	Multi-city exploration of built environment and transit mode use: Comparison of Melbourne, Amsterdam and Boston	Land use
C Balijepalli, D Alima	Understanding the influence of a downstream-side bus stop on saturation flows at an isolated junction	Land use

L Yang, Y Liang, Q Zhu, X Chu	Machine learning for inference: using gradient boosting decision tree to assess non-linear effects of bus rapid transit on house prices*	Land use
Z Zhu, A Xu, Q He, H Yang	Competition between the transportation network company and the government with subsidies to public transit riders	Policy
V Van Acker, L Ho, C Mulley	“Satisfaction lies in the effort”. Is Gandhi’s quote also true for satisfaction with commuting?	Policy
L Guzman, J Arellana, J Camargo	A hybrid discrete choice model to understand the effect of public policy on fare evasion discouragement in Bogotá’s Bus Rapid Transit	Policy
A Thombre, A Agarwal	A paradigm shift in urban mobility: Policy insights from travel before and after COVID-19 to seize the opportunity*	Policy
H Lee, J Jiao, S Choi	Identifying spatiotemporal transit deserts in Seoul, South Korea	Policy
Ş Yildirim, B Yıldız	Electric bus fleet composition and scheduling	Infrastructure
M Bayrak, S Ilgin Guler	Optimization of dedicated bus lane location on a transportation network while accounting for traffic dynamics	Infrastructure
P Benoiel, A Jenn, G Tal	Examining energy uncertainty in battery bus deployments for transit agencies in California*	Infrastructure
J Dhindaw, S Kumaraswamy, S Prakash, R Chanchani, A Deb	Synergizing Land Value Capture and Transit-Oriented Development: A Study of Bengaluru Metro*	Economics
C Pigeon, A Alauzet, L Paire-Ficout	Factors of acceptability, acceptance and usage for non-rail autonomous public transport vehicles: A systematic literature review	Literature review
E Lee, X Cen, H Lo	Zonal-based flexible bus service under elastic stochastic demand	Mode

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