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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

6-2023

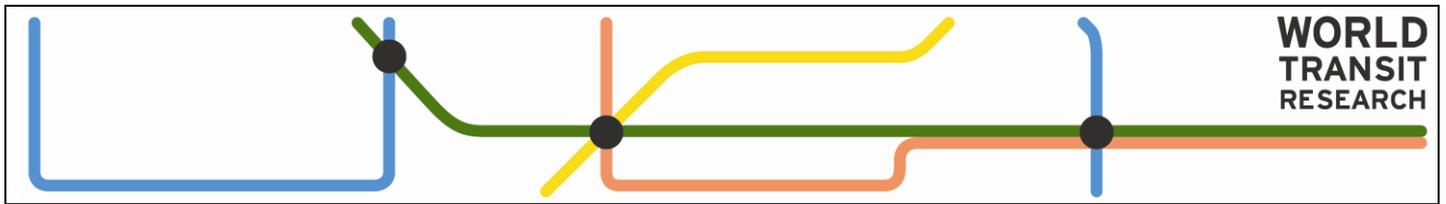
World Transit Research June 2023 Newsletter

Institute of Transport Studies Monash University

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World Transit Research

June 2023 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 9,584 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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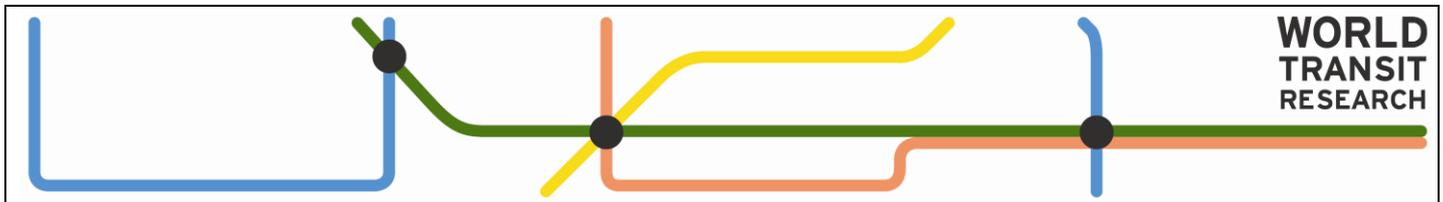
If you have any queries or suggestions on how to improve our publication, we would love to hear from you at: enquiries@worldtransitresearch.info

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WORLD TRANSIT RESEARCH – NEW RESEARCH PUBLICATIONS

AUTHOR	TITLE	CATEGORY
X Xu, Y Yu, J Long	Integrated electric bus timetabling and scheduling problem	Planning
W Ma, L Zeng, K An	Dynamic vehicle routing problem for flexible buses considering stochastic requests	Planning
X Wang, A D'Ariano, S Su, T Tang	Cooperative train control during the power supply shortage in metro system: A multi-agent reinforcement learning approach	Planning
K Hayakawa, M Chikaraishi	Modeling the impact of e-hailing services on regional public transit considering transit-dependent people*	Planning
B Mo, H Koutsopoulos, Z Shen, J Zhao	Robust path recommendations during public transit disruptions under demand uncertainty	Planning
Y Lu, L Yang, H Yang, H Zhou, Z Gao	Robust collaborative passenger flow control on a congested metro line: A joint optimization with train timetabling	Planning
G Sun, Y Du	New metro and subjective wellbeing among older people: A natural experiment in Hong Kong	Planning
S Yanik, S Yilmaz	Optimal design of a bus route with short-turn services	Planning
D Mishra, R Panda	Decoding customer experiences in rail transport service: application of hybrid sentiment analysis	Planning
T Yamauchi, M Takamatsu, S Imahori	Optimizing train stopping patterns for congestion management	Planning
S Wang, Y Li, A Chen, C Zhuge	Electrification of a citywide bus network: A data-driven micro-simulation approach	Planning
L Ellingsen, R Thorne, J Wind, E Figenbaum, M Romare, A Nordelöf	Corrigendum to “Life cycle assessment of battery electric buses” [Transp. Res. Part D: Transp. Environ. 112 (2022) 103498]*	Planning
J He, N Yan, J Zhang, T Wang, Y Chen, T Tang	Battery electricity bus charging schedule considering bus journey’s energy consumption estimation	Planning
D Luglio, T Huynh, A Saporito, T Gordon	Investigation of a river-tunnel effect on PM2.5 concentrations in New York City subway stations	Planning
E Hussain, A Bhaskar, E Chung	Zone prioritisation for transit improvement using potential demand estimated from smartcard data	Planning
L Liu, A Dennett, R Hickman	Social equity impacts of rail transit investments using community perceptions: evidence from Chongqing	Planning
Y Chen, Y Cheng, G Chang	Incorporating bus delay minimization in design of signal progression for arterials accommodating heavy mixed-traffic flows	Planning
R Cordera, R Sañudo, E Echániz, S Nogués, L dell’Olio	Future scenarios for the European railway sector: A methodology based on past trends and a stated preference survey	Planning
Z An, E Heinen, D Watling	The level and determinants of multimodal travel behavior: Does trip purpose make a difference?*	Planning
K Yuen, L Choo, X Li, Y Wong, F Ma, X Wang	A theoretical investigation of user acceptance of autonomous public transport	Planning
X Wang, Z Song, H Xu, H Wang	En-route fast charging infrastructure planning and scheduling for battery electric bus systems	Planning
N Elagouz, N Onat, M Kucukvar, B Ayvaz, A Kutty, A Kusakci	Integrated modelling for sustainability assessment and decision making of alternative fuel buses*	Planning
A Avenali, G Catalano, M Giagnorio, G Matteucci	Assessing cost-effectiveness of alternative bus technologies: Evidence from US transit agencies	Planning
X Yan, X Zhao, A Broaddus, J Johnson, S Srinivasan	Evaluating shared e-scooters’ potential to enhance public transit and reduce driving	Planning
T Zhu, D Qin, W Jia	Examining the associations between urban bus drivers’ rule violations and crash frequency using observational data	Planning
B Loo, Z Fan, T Lian	Using computer vision and machine learning to identify bus safety risk factors*	Planning
L Deng, M Zhong, J Xu, G Xu	Train Operation Curve Optimization for an Urban Rail Interval With Multi-Parameter Adjustment	Planning
Z Han, E Gonzales, E Christofa, J Oke	Modeling System-Wide Urban Rail Transit Energy Consumption: A Case Study of Boston	Planning
D Roumpekas, C Iliopoulou, K Kepaptsoglou	Metro Speed Profile Optimization Considering Passenger Comfort: Model and Application	Planning

E Cho, S Park, C Oh	Analysis of Intrinsic Factors Leading to Aggressive Driving Behavior to Derive Safety Policy Implications for Bus Drivers	Planning
M Siegrist, B Büchel, F Corman	Evaluating the Effects of Disruptions on the Behavior of Travelers in a Multimodal Network Utilizing Agent-Based Simulation*	Planning
A Inan, H Kara	Urban Railway System Route Selection in Turkey Based on Socio-Economic and Technical Criteria Using the Analytical Hierarchy Process	Planning
S Moodley, C Venter	Measuring the Service Quality at Multimodal Public Transport Interchanges: A Needs-Driven Approach	Planning
X Chen, Z Ma, Z Li	Unplanned Disruption Analysis and Impact Modeling in Urban Railway Systems	Planning
B Doran, K Crossland, S Wilkening, V Warren	Investigation of the external noise emitted from electric buses in New Zealand and the need for acoustic vehicle alerting systems to improve road user safety	Planning
J Thomas, L Malcolm, D Cooper, T Cross, L Cai, F Thomas, B Frith	Safety interventions and their contribution to mode shift*	Planning
G Xiao, Y Xiao, A Ni, C Zhang, F Zong	Exploring influence mechanism of bikesharing on the use of public transportation — a case of Shanghai	Ridership
S Das, H Zubaidi	City Transit Rider Tweets: Understanding Sentiments and Politeness	Ridership
Y Gu, A Chen	Modeling mode choice of customized bus services with loyalty subscription schemes in multi-modal transportation networks	Ridership
B Hintermann, B Schoeman, J Molloy, T Schatzmann, C Tchervenkov, K Axhausen	The impact of COVID-19 on mobility choices in Switzerland*	Ridership
S Ye, Q Chen, Y Tang	Anger between bus drivers and passengers or among passengers: Development of a bus passenger anger scale (BPAS) and a bus driver anger scale (BDAS)*	Ridership
M Kroesen, J De Vos, H Le, D Ton	Exploring attitude-behaviour dynamics during COVID-19: How fear of infection and working from home influence train use and the attitude toward this mode*	Ridership
S Patni, S Srinivasan, J Suarez	The impact of COVID-19 on route-level changes in transit demand an analysis of five transit agencies in Florida, USA	Ridership
W Qi, S Zhu, W Long	Exploring the factors that affect the defensive driving behavior of bus drivers: the application of TPB and PMT theories	Ridership
A Ilimi	Estimating the demand for informal public transport: evidence from Antananarivo, Madagascar	Ridership
B Barabino, S Salis	Segmenting fare-evaders by tandem clustering and logistic regression models	Ridership
Y He, Y Zhao, K Tsui	Short-term forecasting of origin-destination matrix in transit system via a deep learning approach	Ridership
S Shelat, O Cats, N van Oort, J van Lint	Evaluating the impact of waiting time reliability on route choice using smart card data*	Ridership
Y Martínez-Estupiñan, F Delgado, J Muñoz, K Watkins	Understanding what elements influence a bus driver to use headway regularity tools: case study of Santiago public transit system	Ridership
M Dixit, O Cats, T Brands, N van Oort, S Hoogendoorn	Perception of overlap in multi-modal urban transit route choice*	Ridership
Y Qu, X Liu, J Wu, Y Wei	Modeling pedestrian behaviors of boarding and alighting dynamics in urban railway stations	Ridership
A Ariza-Álvarez, M López-Lambas, J Soria-Lara	Analysing the acceptance of autonomous buses in real-life traffic environments: pilot project with tourists in Malaga, Spain	Ridership
I Alhassan, B Matthews, J Toner, Y Susilo	Examining the effect of integrated ticketing on mode choice for interregional commuting: Studies among car commuters*	Ridership
J Wang, Y Li, J Jiao, H Jin, F Du	Bus ridership and its determinants in Beijing: A spatial econometric perspective*	Ridership
K Flaris, K Gkritza, P Singleton, A Graul, Z Song	Riders' perceptions towards transit bus electrification: Evidence from Salt Lake City, Utah	Ridership
T Magill, C Christie, S Fong	Impact of half-price public transport fares – a research note	Ridership
N Brinkel, M Zijlstra, R van Bezu, T van Twuijver, I Lampropoulos, W van Sark	A comparative analysis of charging strategies for battery electric buses in wholesale electricity and ancillary services markets	Infrastructure
O Battaïa, A Dolgui, N Guschinsky, M Kovalyov	Designing fast-charge urban electric bus services: An Integer Linear Programming model	Infrastructure



Z Dai, K Han	Exploring the drive-by sensing power of bus fleet through active scheduling	Infrastructure
L Zhang, G Qian, Z Song, D Wang	Deploying dedicated lanes for connected and autonomous buses in urban transportation networks	Infrastructure
T Yang, W Fan	Evaluation of transit signal priority at signalized intersections under connected vehicle environment	Infrastructure
Y He, Z Liu, Z Song	Joint optimization of electric bus charging infrastructure, vehicle scheduling, and charging management	Infrastructure
R Liu, F Wang, Z Wang, C Wu, H He	Identification of Subway Track Irregularities Based on Detection Data of Portable Detector	Infrastructure
F Pu, J Yin, Y Wang, S Su, L Yang, T Tang	Rolling Stock Allocation and Timetabling for Urban Rail Transit Network with Multiple Depots	Infrastructure
T Ghosh, K Bhattacharyya, B Maitra	Traffic Micro-Simulation-Based Evaluation of Bus Priority With Queue Jump Lane on an Urban Corridor With Heterogeneous Traffic Operations	Infrastructure
L Thorwaldson, A Knight	New Zealand's experience of transitioning to a zero-emission public transport fleet – a research note*	Infrastructure
S Saidi, H Koutsopoulos, N Wilson, J Zhao	Train following model for urban rail transit performance analysis*	Operations
H Nguyen, A Chow	Adaptive rail transit network operations with a rollout surrogate-approximate dynamic programming approach	Operations
J Ji, Y Bie, L Wang	Optimal electric bus fleet scheduling for a route with charging facility sharing	Operations
Q Tian, Y Lin, D Wang	Joint scheduling and formation design for modular-vehicle transit service with time-dependent demand	Operations
M Sadrani, A Jafarian-Moghaddam, M Esfahani, A Rahimi	Designing limited-stop bus services for minimizing operator and user costs under crowding conditions	Operations
X Tang, J Yang, X Lin, F He, J Si	Dynamic operations of an integrated mobility service system of fixed-route transits and flexible electric buses	Operations
Y Zhao, D Li, Y Yin, X Zhao	Integrated optimization of demand-driven timetable, train formation plan and rolling stock circulation with variable running times and dwell times	Operations
D Huang, Y Wang, S Jia, Z Liu, S Wang	A Lagrangian relaxation approach for the electric bus charging scheduling optimisation problem	Operations
J Zhao, S Sun, O Cats	Joint optimisation of regular and demand-responsive transit services*	Operations
C Tang, H Shi, T Liu	Optimization of single-line electric bus scheduling with skip-stop operation	Operations
D Nguyen-Phuoc, M Zhou, M Chua, A Alho, S Oh, R Seshadri, D Le	Examining the effects of Automated Mobility-on-Demand services on public transport systems using an agent-based simulation approach*	Policy
S Srivatsa Srinivas	To increase or to decrease the price? Managing public transport queues during COVID-19 in the presence of strategic commuters	Policy
X Wang, J Renne	Socioeconomics of urban travel in the U.S.: Evidence from the 2017 NHTS*	Policy
Z Wang, J Yu, G Li, C Zhuge, A Chen	Time for hydrogen buses? Dynamic analysis of the Hong Kong bus market	Policy
C Liu, W Zhang	Social and spatial heterogeneities in COVID-19 impacts on individual's metro use: A big-data driven causality inference*	Policy
A Hightower, A Ziedan, C Crossland, C Brakewood	Current Practices and Potential Rider Benefits of Fare Capping Policies in the U.S.A.*	Policy
S Cheng, J Wang	Deep learning method for risk identification of autonomous bus operation considering image data augmentation strategies	Technology
Z Chen, S Li, L Yang	Hierarchical optimal control framework to automatic train regulation combined with energy-efficient speed trajectory calculation in metro lines	Technology
S Choi, D Lee, S Kim, S Tak	Framework for Connected and Automated Bus Rapid Transit with Sectionalized Speed Guidance based on deep reinforcement learning: Field test in Sejong City*	Technology
L Yu, K Li, Z Kuang, Z Wang	Decentralized motion planning for intelligent bus platoon based on hierarchical optimization framework	Technology
B Bian, N Zhu, Q Meng	Real-time cruising speed design approach for multilane bus systems	Technology
J Ha, D Ki, S Lee, J Ko	Mode choice and the first-/last-mile burden: The moderating effect of street-level walkability	Land use
X Chen, T Li, Q Yuan	Impacts of built environment on travel behaviors of Generation Z: a longitudinal perspective	Land use
L Braun, J Barajas, B Lee, R Martin	Walking the Last Mile: Barriers and Solutions to Suburban Transit Access	Land use

B Salter, S Alexander	Getting There: The Effect of First and Last Mile Infrastructure and Services on Rail Ridership	Land use
A Bwambale, C Uzundu, M Islam, F Rahman, Z Batool, P Mukwaya, Z Wadud	Willingness to pay for COVID-19 mitigation measures in public transport and paratransit in low-income countries*	Economics
A Vijaykumar, K Aswathy, A Dubedi	A Summary of Expert Perspectives on Viable Financing Pathways for Electrifying India's Public Transport*	Economics
R Gadepalli, S Gumireddy, P Bansal	Cost Drivers of Electric Bus Contracts: Analysis of 33 Indian Cities	Economics
K Tiong, Z Ma, C Palmqvist	A review of data-driven approaches to predict train delays*	Literature review
T Feng, R Lusby, Y Zhang, Q Peng, P Shang, S Tao	An ADMM-based dual decomposition mechanism for integrating crew scheduling and rostering in an urban rail transit line	Organisation

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