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World Transit Research April 2022 Newsletter

Institute of Transport Studies Monash University

World Transit Research

April 2022 Newsletter

http://www.worldtransitresearch.info

Welcome to the WORLD TRANSIT RESEARCH (WTR) clearinghouse newsletter. This newsletter, which is published bi-monthly, summarises new research published in the field which has been added to the World Transit Research clearinghouse research database.

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 8,927 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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To unsubscribe from this newsletter please email request to Monash-ITS-WTR@monash.edu.

JOURNAL SUBSCRIPTIONS

Articles on the following two pages denoted with an asterisk * are from Journals that do not require a subscription to view the full article.

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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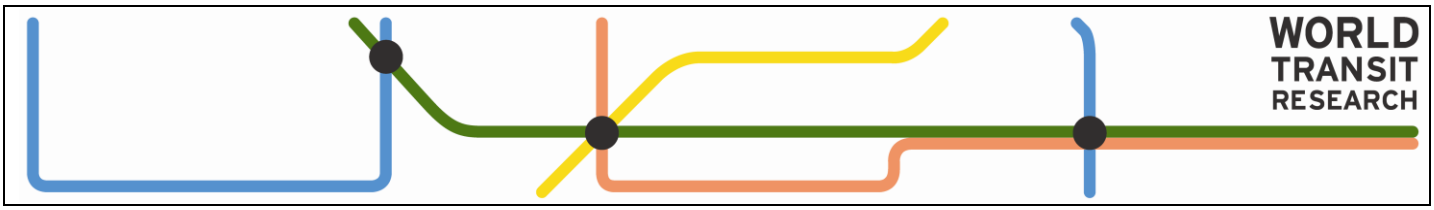
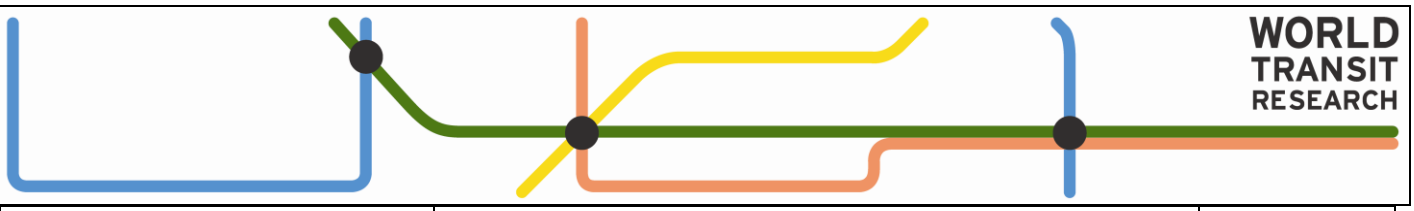


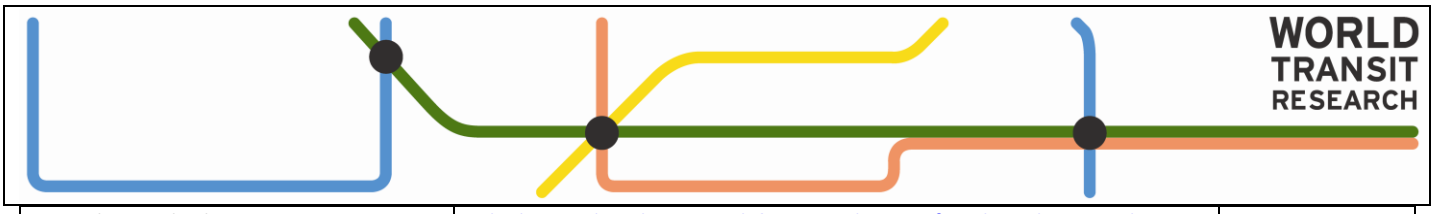
WORLD TRANSIT RESEARCH – NEW RESEARCH PUBLICATIONS

AUTHOR	TITLE	CATEGORY
Y Sun, Y Cao, P Li	Fault diagnosis for train plug door using weighted fractional wavelet packet decomposition energy entropy	Planning
G Deng, F Wang, C Yu, Y Peng, H Xu, Z Li, L Hou, Z Wang	Assessment of standing passenger traumatic brain injury caused by ground impact in subway collisions	Planning
M Hadi, M Islam, S Afreen, T Wang	Evaluation of an Advanced Driver-Assistance System to Reduce Pedestrian and Rear-End Crashes of Transit Vehicles	Planning
M Ali, A Kitali, J Kodi, P Alluri, T Sando	Safety Impacts of Transit Signal Priority Using a Full Bayesian Approach	Planning
B Shandobil, T Lazarchik, K Clifton	Spatial and Temporal Differences in Weekday Travel Durations Between Private-for-Hire Transportation Services and Transit in the City Center	Planning
S Moon, D Kim, S Cho	Design of Zonal Express Bus Services to Reduce User Travel Time and Transfers Considering Demand Diversion	Planning
R Kutadinata, S Dey, D Leow	Relative Mobility Analysis of a Public Transport Network in Comparison with Car Travel	Planning
C Kapuku, S Kho, D Kim, S Cho	Assessing and Predicting Mobility Improvement of Integrating Bike-Sharing into Multimodal Public Transport Systems	Planning
H Yun, E Lee, D Kim, S Cho	Development of Estimating Methodology for Transit Accessibility Using Smart Card Data	Planning
X Fu, Y Zuo, S Zhang, Z Liu	Measuring joint space-time accessibility in transit network under travel time uncertainty	Planning
Y Le, M Oka, H Kato	Efficiencies of the urban railway lines incorporating financial performance and in-vehicle congestion in the Tokyo Metropolitan Area	Planning
N Thomas, A Jana, S Bandyopadhyay	Physical distancing on public transport in Mumbai, India: Policy and planning implications for unlock and post-pandemic period*	Planning
V Sunio, I Mateo-Babiano	Pandemics as 'windows of opportunity': Transitioning towards more sustainable and resilient transport systems	Planning
B Naveen, A Gurtoo	Public transport strategy and epidemic prevention framework in the Context of Covid-19*	Planning
B Wang, C Liu, H Zhang	Where are equity and service effectiveness? A tale from public transport in Shangha	Planning
Y Yang, R Beecham, A Heppenstall, A Turner, A Comber	Understanding the impacts of public transit disruptions on bikeshare schemes and cycling behaviours using spatiotemporal and graph-based analysis: A case study of four London Tube strikes*	Planning
S Salih, J Lee	Measuring transit accessibility: A dispersion factor to recognise the spatial distribution of accessible opportunities*	Planning
X Yan, I Bajleri, L Zhai	A spatiotemporal analysis of transit accessibility to low-wage jobs in Miami-Dade County*	Planning
V Verstappen, E Pikaar, R Zon	Assessing the impact of driver advisory systems on train driver workload, attention allocation and safety performance	Planning
A Naweed, L Bowditch, J Trigg, C Unsworth	Injury by design: A thematic networks and system dynamics analysis of work-related musculoskeletal disorders in tram drivers*	Planning
F Wu, P Schonfeld	Optimized two-directional phased development of a rail transit line*	Planning
Y Zhang, Q Peng, G Lu, Q Zhong, X Yan, X Zhou	Integrated line planning and train timetabling through price-based cross-resolution feedback mechanism*	Planning
Z Ahern, A Paz, P Corry	Approximate multi-objective optimization for integrated bus route design and service frequency setting*	Planning
J Hybel, I Mulalic	Transportation and quality of life: Evidence from Denmark	Planning
A Cantillo, S Raveau, J Muñoz	Fare evasion on public transport: Who, when, where and how?	Planning
A Loder, M Bliemer, K Axhausen	Optimal pricing and investment in a multi-modal city — Introducing a macroscopic network design problem based on the MFD	Planning
M Ansari Esfeh, S Saidi, S Wirasinghe, L Kattan	Waiting time and headway modeling considering unreliability in transit service*	Planning
M Navarro-Ligero, L Valenzuela-Montes	Scenario archetypes in urban transport planning: Insights from the implementation of LRT systems*	Planning
E Echaniz, R Cordera, A Rodriguez, S Nogués, P Coppola, L dell'Olio	Spatial and temporal variation of user satisfaction in public transport systems*	Planning

K Liu, H Gao, Y Wang, T Feng, C Li	Robust charging strategies for electric bus fleets under energy consumption uncertainty	Planning
D Huber, T Viere, E Nemoto, I Jaroudi, D Korbee, G Fournier	Climate and environmental impacts of automated minibuses in future public transportation*	Planning
M Li, P Tang, X Lin, F He	Multistage planning of electric transit charging facilities under build-operate-transfer model*	Planning
P Vansteenwegen, L Melis, D Aktaş, B Montenegro, F Sartori Vieira, K Sörensen	A survey on demand-responsive public bus systems	Planning
T Chen, Y Zhang, X Qian, J Li	A knowledge graph-based method for epidemic contact tracing in public transportation*	Planning
Y Hao, B Si, C Zhao	Topology transformation-based multi-path algorithm for urban rail transit network	Planning
K Lee, Y Jiang, A Ceder, J Dauwels, R Su, O Nielsen	Path-oriented synchronized transit scheduling using time-dependent data*	Planning
S Chen, H Fu, N Wu, Y Wang, Y Qiao	Passenger-oriented traffic management integrating perimeter control and regional bus service frequency setting using 3D-pMFD	Planning
K Gkiotsalitis, M Schmidt, E van der Hurk	Subline frequency setting for autonomous minibusses under demand uncertainty*	Planning
M Du, A Chen	Sensitivity analysis for transit equilibrium assignment and applications to uncertainty analysis	Planning
W Yu, H Sun, J Wu, Y Lv, X Shang, X Wang	Mapping multimodal random accessibility using smart card data: a case study of bus and subway stations in Beijing	Planning
J Chu, A Chen, H Shih	Stochastic programming model for integrating bus network design and dial-a-ride scheduling	Planning
X Meng, Y Wang, Y Qin, W Xiang	Railway transit network design based on fuzzy plant growth simulation algorithm	Planning
M Khaloei, A Ranjbari, K Laberteaux, D MacKenzie	Analyzing the Effect of Autonomous Ridehailing on Transit Ridership: Competitor or Desirable First-/Last-Mile Connection?	Ridership
C Krier, J Chrétien, M Lagadic, N Louvet	How Do Shared Dockless E-Scooter Services Affect Mobility Practices in Paris? A Survey-Based Estimation of Modal Shift	Ridership
A Marra, L Sun, F Corman	The impact of COVID-19 pandemic on public transport usage and route choice: Evidences from a long-term tracking study in urban area*	Ridership
P Alimo, S Agyeman, S Zankawah, C Yu, L Cheng, W Ma	Factors causing low demand for a suburban passenger train in Sekondi-Takoradi*	Ridership
M Wei	How does the weather affect public transit ridership? A model with weather-passenger variations	Ridership
D Bautista-Hernández	Individual, household, and urban form determinants of trip chaining of non-work travel in México City*	Ridership
Y Lee, B Lee	What's eating public transit in the United States? Reasons for declining transit ridership in the 2010s	Ridership
M Wei	Investigating the influence of weather on public transit passenger's travel behaviour: Empirical findings from Brisbane, Australia	Ridership
B Tomhave, A Khani	Refined choice set generation and the investigation of multi-criteria transit route choice behavior*	Ridership
X Zhao, Y Susilo, A Pernestål	The dynamic and long-term changes of automated bus service adoption*	Ridership
J Soto, M Orozco-Fontalvo, S Useche	Public transportation and fear of crime at BRT Systems: Approaching to the case of Barranquilla (Colombia) through integrated choice and latent variable models*	Ridership
F Baig, D Zhang, J Lee, H Xu	Shaping inclusiveness of a transportation system: Factors affecting seat-yielding behavior of university students in public transportation*	Ridership
R Martin, Y Xu	Is tech-enhanced bikeshare a substitute or complement for public transit?*	Ridership
M Bagdatli, F Ipek	Transport mode preferences of university students in post-COVID-19 pandemic*	Ridership
C Chen, T Feng, X Gu, B Yao	Investigating the effectiveness of COVID-19 pandemic countermeasures on the use of public transport: A case study of The Netherlands*	Ridership
A Tennøy, M Knapskog, F Wolday	Walking distances to public transport in smaller and larger Norwegian cities*	Ridership
F Hisham, J Bunker, A Bhaskar	Incorporating Practical Degree of Saturation in Capacity Estimation of On-Street, Mid-Block, Off-Line Bus Stops	Operations



H Zhao, S Feng, Y Ci	Scheduling a Bus Fleet for Evacuation Planning Using Stop-Skipping Method	Operations
B Li, T Gao, R Li, Y Wang, Y Ou, F Chen	Delay Propagation in Large Railway Networks with Data-Driven Bayesian Modeling	Operations
A Ait Ali, J Eliasson, J Warg	Are commuter train timetables consistent with passengers' valuations of waiting times and in-vehicle crowding?*	Operations
S Hu, M Chen, Y Jiang, W Sun, C Xiong	Examining factors associated with bike-and-ride (BnR) activities around metro stations in large-scale dockless bikesharing systems*	Operations
W Wu, Y Lin, R Liu, W Jin	The multi-depot electric vehicle scheduling problem with power grid characteristics*	Operations
M Müller-Hannemann, R Rückert, A Schiewe, A Schöbel	Estimating the robustness of public transport schedules using machine learning	Operations
M Tessitore, M Samà, A D'Ariano, L Hélouet, D Pacciarelli	A simulation-optimization framework for traffic disturbance recovery in metro systems	Operations
W Li, S Ni	Train timetabling with the general learning environment and multi-agent deep reinforcement learning	Operations
Y Ni, H Lo, Y Hsu, H Huang	Exploring the effects of passive transit signal priority design on bus rapid transit operation: a microsimulation-based optimization approach	Operations
A Nelson, R Hibberd	(Overlooked) Association between Express Bus Station/Stop Proximity and Multifamily Rents with a Surprise about Transit Mode Synergism and Implications for Transit and Land Use Planning	Land use
X Li, M Zhang, J Wang	The spatio-temporal relationship between land use and population distribution around new intercity railway stations: A case study on the Pearl River Delta region, China*	Land use
R Acheampong, S Asabere	Urban expansion and differential accessibility by car and public transport in the Greater Kumasi city-region, Ghana—A geospatial modelling approach	Land use
J Zhou, Y Yang, H Ma	Significance of metro stations and their surroundings: Hong Kong in the anti-extradition protests*	Land use
C Liang, Y Huang, T Yip, V Li	Does rail transit development gentrify neighborhoods? Evidence from Hong Kong*	Land use
P Raj, G Asaithambi, A Shankar	Effect of curbside bus stops on passenger car units and capacity in disordered traffic using simulation model	Land use
E Mogaji, I Adekunle, S Aririguzoh, A Oginni	Dealing with impact of COVID-19 on transportation in a developing country: Insights and policy recommendations*	Policy
T Jin, L Cheng, Z Liu, J Cao, H Huang, F Witlox	Nonlinear public transit accessibility effects on housing prices: Heterogeneity across price segments	Policy
Y Wang, K Geng, A May, H Zhou	The impact of traffic demand management policy mix on commuter travel choices	Policy
T da Silva, P Baptista, C Santos Silva, L Santos	Assessment of decarbonization alternatives for passenger transportation in Rio de Janeiro, Brazil	Policy
E Lunke	Modal accessibility disparities and transport poverty in the Oslo region*	Policy
D He, X Teng, Y Chen, B Liu, H Wang, X Li, R Ma	Energy saving in metro ventilation system based on multi-factor analysis and air characteristics of piston vent	Infrastructure
K Purnell, A Bruce, I MacGill	Impacts of electrifying public transit on the electricity grid, from regional to state level analysis	Infrastructure
Y Alweabi, F Avishan, İ Yanıkoğlu, Z Liu, Y Wang	Robust strategic planning of dynamic wireless charging infrastructure for electric buses	Infrastructure
D Hensher, E Wei, C Balbontin	Comparative assessment of zero emission electric and hydrogen buses in Australia*	Infrastructure
M Wendeker, M Gęca, Ł Grabowski, K Pietrykowski, N Kasianantham	Measurements and analysis of a solar-assisted city bus with a diesel engine	Technology
T Li, P Meredith-Karam, H Kong, A Stewart, J Attanucci, J Zhao	Comparison of Door-to-Door Transit Travel Time Estimation Using Schedules, Real-Time Vehicle Arrivals, and Smartcard Inference Methods	Technology
A Soukhov, M Mohamed	Occupancy and GHG emissions: thresholds for disruptive transportation modes and emerging technologies*	Technology
E Kim, D Kim, K Sohn	Imputing qualitative attributes for trip chains extracted from smart card data using a conditional generative adversarial network	Technology
X Li, P Love	Procuring urban rail transit infrastructure by integrating land value capture and public-private partnerships: Learning from the cities of Delhi and Hong Kong	Economics



A Smith, M Cabral	Is higher quality always costly? Marginal costs of quality: Theory and application to railway punctuality	Economics
X Li, P Love, H Luo, W Fang	A systemic model for implementing land value capture to support urban rail transit infrastructure projects	Economics
J Park, S Chowdhury	Towards an enabled journey: barriers encountered by public transport riders with disabilities for the whole journey chain	Literature review
H Ding, A Loukaitou-Sideris, J Wasserman	Homelessness on public transit: A review of problems and responses	Literature review
J Bian, W Li, S Zhong, C Lee, M Foster, X Ye	The end-user benefits of smartphone transit apps: a systematic literature review	Literature review
T Sangveraphunsiri, M Cassidy, C Daganzo	Jitney-lite: a flexible-route feeder service for developing countries*	Mode
M Aldenius, C Mullen, F Pettersson-Löfstedt	Electric buses in England and Sweden – Overcoming barriers to introduction*	Organisation

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