



Institute of Transport Studies (Monash)
The Australian Research Council Key Centre in Transport Management

**Institute of Transport Studies, Monash
University
World Transit Research**

World Transit Research Newsletter

12-2017

World Transit Research December 2017 Newsletter

Institute of Transport Studies Monash University

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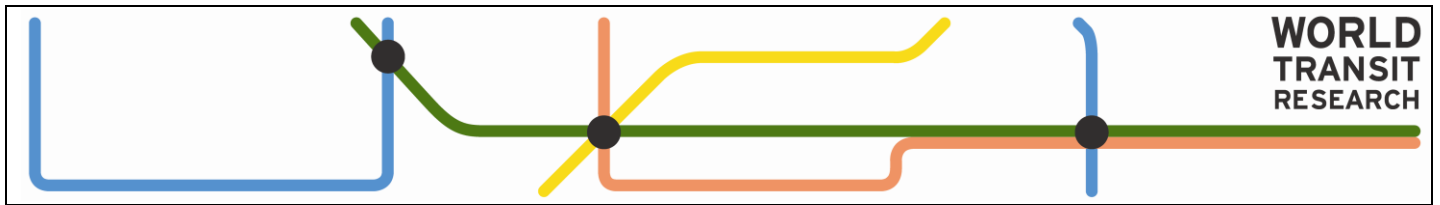
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MONASH University



World Transit Research

December 2017 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 6,665 research reports/papers. Some 80 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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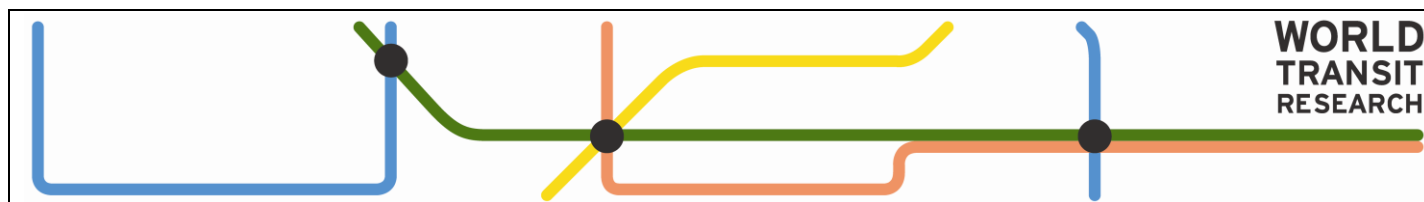
JOURNAL SUBSCRIPTIONS

Articles on the following two pages denoted with an asterisk * are from Journals that require a subscription to view the full article.

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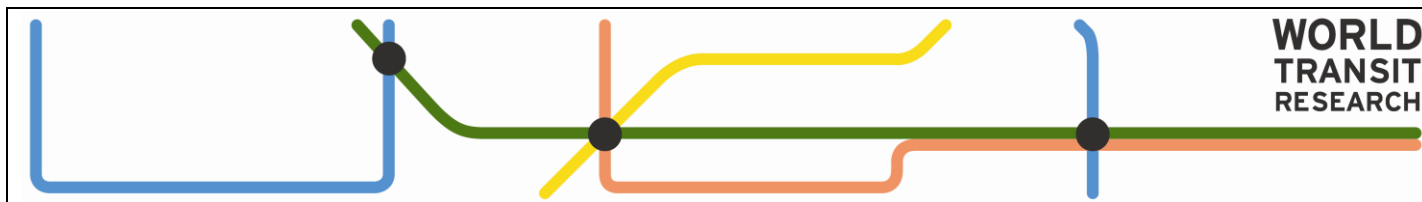
If you have any queries or suggestions on how to improve our publication, we would love to hear from you at: enquiries@worldtransitresearch.info

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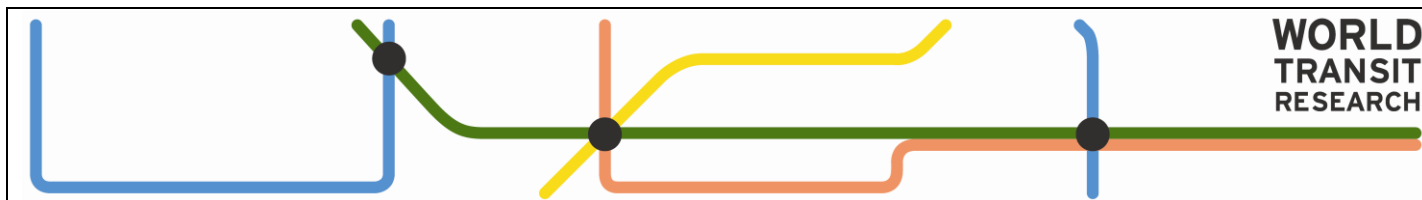


WORLD TRANSIT RESEARCH – NEW RESEARCH PUBLICATIONS

AUTHOR	TITLE	CATEGORY
G Soto, H Larrain, J Muñoz	A new solution framework for the limited-stop bus service design problem*	Planning
S Maadi, J Schmöcker	Optimal hyperpaths with non-additive link costs*	Planning
S Jara-Díaz, A Fielbaum, A Gschwender	Optimal fleet size, frequencies and vehicle capacities considering peak and off-peak periods in public transport*	Planning
C Lu, J Tang, L Zhou, Y Yue, Z Huang	Improving recovery-to-optimality robustness through efficiency-balanced design of timetable structure*	Planning
R Hyde, D Smith	Assessing the value of public transport as a network	Planning
A Wahaballa, F Kurauchi, T Yamamoto, J Schmöcker	Estimation of Platform Waiting Time Distribution Considering Service Reliability Based on Smart Card Data and Performance Reports*	Planning
K de Regt, O Cats, N Van Oort, H van Lint	Investigating Potential Transit Ridership by Fusing Smartcard and Global System for Mobile Communications Data*	Planning
C Vanderwaart, J Attanucci, F Salvucci	Applications of Inferred Origins, Destinations, and Interchanges in Bus Service Planning*	Planning
D van Lierop, A El-Geneidy	Perceived Reality: Understanding the Relationship Between Customer Perceptions and Operational Characteristics*	Planning
S Borjian, J Schabas, J Segal	Exploratory Method for Practitioners Analyzing the Impact of Integrated Fare Structures in Decentralized Metropolitan Regions: A Toronto Region Case Study*	Planning
D Efthymiou, C Antoniou, Y Tyrinopoulos, E Skaltsogianni	Factors affecting bus users' satisfaction in times of economic crisis*	Planning
A Gholami, M Ziaee	Development of a performance measurement system to choose the most efficient programs, the case of the Mashhad transportation system*	Planning
Z Guo, J Zhao, C Whong, P Mishra, L Wyman	Redesigning subway map to mitigate bottleneck congestion: An experiment in Washington DC using Mechanical Turk*	Planning
M Nassereddine, H Eskandari	An integrated MCDM approach to evaluate public transportation systems in Tehran*	Planning
L Li, H Ren, S Zhao, Z Duan, Y Zhang, A Zhang	Two dimensional accessibility analysis of metro stations in Xi'an, China*	Planning
L Tong, L Zhou, J Liu, X Zhou	Customized bus service design for jointly optimizing passenger-to-vehicle assignment and vehicle routing*	Planning
A Frappier, C Morency, M Trépanier	Measuring the quality and diversity of transit alternatives	Planning
C Loong, D van Lierop, A El-Geneidy	The Path of Least Resistance: Identifying Supporters of Public and Active Transportation Projects*	Planning
R de Oña, J e Silva, C Muñoz-Monge, J de Oña	Users' satisfaction evolution of a metropolitan transit system in a context of economic downturn*	Planning
J Chen, J Ni, C Xi, S Li, J Wang	Determining intra-urban spatial accessibility disparities in multimodal public transport networks*	Planning
R Wei, X Liu, Y Mu, L Wang, A Golub, S Farber	Evaluating public transit services for operational efficiency and access equity*	Planning
Y Lai, C Lu, C Lu	Comprehensive Approach to Allocate Reliability and Cost in Passenger Rail System Design*	Planning
A Salonen	Passenger's subjective traffic safety, in-vehicle security and emergency management in the driverless shuttle bus in Finland	Planning
P Ghosh, M Ojha, Geetika	Determining passenger satisfaction out of platform-based amenities: A study of Kanpur Central Railway Station*	Planning
E Gris�, A El-Geneidy	Where is the happy transit rider? Evaluating satisfaction with regional rail service using a spatial segmentation approach*	Planning
B Pessaro, M Catal�, Z Wang, M Spicer	Impact of Transit Stop Location on Pedestrian Safety	Planning
Deloitte Access Economics	Value of Rail: The contribution of rail in Australia	Planning
D Luo, O Cats, H van Lint	Constructing Transit Origin–Destination Matrices with Spatial Clustering*	Ridership
Z Ma, A Masoud, A Idris	Modeling the Impact of Transit Fare Change on Passengers' Accessibility*	Ridership
G S�nchez-Mart�nez	Estimating Fare Noninteraction and Evasion with Disaggregate Fare Transaction Data*	Ridership
M Friman, T G�rling, D Etema, L Olsson	How does travel affect emotional well-being and life satisfaction?*	Ridership
S Kwan, R Sutan, J Hashim	Trip characteristics as the determinants of intention to shift to rail transport among private motor vehicle users in Kuala Lumpur, Malaysia	Ridership
M Yap, S Nij�nstein, N van Oort	Improving predictions of public transport usage during disturbances based on smart card data	Ridership
D Dissanayake	Watching the clock on the way to work? Analysing trends in commuting	Ridership



	activities, modes and gender differences in commute times, using hazard-based duration modelling methods*	
J Ke, H Zheng, H Yang, X Chen	Short-term forecasting of passenger demand under on-demand ride services: A spatio-temporal deep learning approach	Ridership
V Keskiisaari, J Ottelin, J Heinonen	Greenhouse gas impacts of different modality style classes using latent class travel behavior model*	Ridership
L McCarthy, A Delbosc, G Currie, A Molloy	Factors influencing travel mode choice among families with young children (aged 0–4): a review of the literature	Ridership
S Tao, J Corcoran, F Rowe, M Hickman	To travel or not to travel: 'Weather' is the question. Modelling the effect of local weather conditions on bus ridership	Ridership
J Pawlak, J Polak, A Sivakumar	A framework for joint modelling of activity choice, duration, and productivity while travelling	Ridership
M Young, S Blainey	Development of railway station choice models to improve the representation of station catchments in rail demand models*	Ridership
G Zhu, J Corcoran, P Shyy, S Pileggi J Hunter	Analysing journey-to-work data using complex networks*	Ridership
J Li, X Li, D Chen, L Godding	Assessment of metro ridership fluctuation caused by weather conditions in Asian context: Using archived weather and ridership data in Nanjing*	Ridership
G Sánchez-Martínez	Inference of Public Transportation Trip Destinations by Using Fare Transaction and Vehicle Location Data: Dynamic Programming Approach	Technology
N Nassir, M Hickman, Z Ma	Statistical Inference of Transit Passenger Boarding Strategies from Farecard Data*	Technology
Z Ma, S Zhu, H Koutsopoulos, L Ferreira	Quantile Regression Analysis of Transit Travel Time Reliability with Automatic Vehicle Location and Farecard Data*	Technology
S Zahabi, A Ajzachi, Z Patterson	Transit Trip Itinerary Inference with GTFS and Smartphone Data*	Technology
F Tong, C Hendrickson, A Biehler, P Jaramillo, S Seki	Life cycle ownership cost and environmental externality of alternative fuel options for transit buses*	Technology
J Yin, T Tang, L Yang, J Xun, Y Huang, Z Gao	Research and development of automatic train operation for railway transportation systems: A survey*	Technology
A Bettinelli, A Santini, D Vigo	A real-time conflict solution algorithm for the train rescheduling problem*	Technology
Y Zhu, H Koutsopoulos, N Wilson	Inferring left behind passengers in congested metro systems from automated data*	Technology
M Amaya, R Cruzat, M Munizaga	Estimating the residence zone of frequent public transport users to make travel pattern and time use analysis*	Technology
M Zhang, Q Meng, L Kang, W Li	Tailored Wakeby-type distribution for random bus headway adherence ratio	Technology
T Kashiyama, Y Pang, Y Sekimoto	Open PFLOW: Creation and evaluation of an open dataset for typical people mass movement in urban areas	Technology
B Loo, K Leung	Transport resilience: The Occupy Central Movement in Hong Kong from another perspective*	Operations
W Zhou, J Tian, L Xue, M Jiang, L Deng, J Qin	Multi-periodic train timetabling using a period-type-based Lagrangian relaxation decomposition*	Operations
Y Zhu, B Mao, Y Bai, S Chen	A bi-level model for single-line rail timetable design with consideration of demand and capacity*	Operations
M Mohamed, M Ferguson, P Kanaroglou	What hinders adoption of the electric bus in Canadian transit? Perspectives of transit providers*	Operations
F Li, Z Gao, D Wang, R Liu, T Tang, J Wu, L Yang	A subjective capacity evaluation model for single-track railway system with δ-balanced traffic and λ-tolerance level*	Operations
J Qi, L Yang, Z Di, S Li, K Yang, Y Gao	Integrated optimization for train operation zone and stop plan with passenger distributions	Operations
T Litman	Evaluating Public Transit Criticism: Systematic Analysis of Political Attacks on High Quality Transit, and How Transportation Professionals Can Effectively Respond	Land use
H Fujii, H Uchida, S Yoshimura	Agent-based simulation framework for mixed traffic of cars, pedestrians and trams*	Land use
R Jiang, Q Lu, Z Peng	A station-based rail transit network vulnerability measure considering land use dependency	Land use
L Staricco, E Vitale Brovarone	Promoting TOD through regional planning. A comparative analysis of two European approaches	Land use
J Li	Residential and transit decisions: Insights from focus groups of neighborhoods around transit stations*	Land use
J Ingvardson, O Nielsen	Effects of new bus and rail rapid transit systems – an international review*	Mode
P Kunhikrishnan, K Srinivasan	Investigating behavioral differences in the choice of distinct Intermediate Public Transport (IPT) modes for work trips in Chennai city	Mode
X Yang, Z Cheng, G Chen, L Wang, Z Ruan, Y Zheng	The impact of a public bicycle-sharing system on urban public transport networks*	Mode



J Wang, H Rakha	Longitudinal train dynamics model for a rail transit simulation system	Mode
Z Yu, V Gayah, E Christofa	Person-Based Optimization of Signal Timing: Accounting for Flexible Cycle Lengths and Uncertain Transit Vehicle Arrival Times*	Infrastructure
F Naznin, G Currie, D Logan	Exploring road design factors influencing tram road safety – Melbourne tram driver focus groups	Infrastructure
D Canca, E Barrena	The integrated rolling stock circulation and depot location problem in railway rapid transit systems	Infrastructure
M Rogge, E van der Hurk, A Larsen, D Sauer	Electric bus fleet size and mix problem with optimization of charging infrastructure*	Infrastructure
C Martínez, F Hodgson, C Mullen, P Timms	Creating inequality in accessibility: The relationships between public transport and social housing policy in deprived areas of Santiago de Chile*	Policy
G Björklund, J Swärdh	Estimating policy values for in-vehicle comfort and crowding reduction in local public transport*	Policy
S Chowdhury, Y Hadas, V Gonzalez, B Schot	Public transport users' and policy makers' perceptions of integrated public transport systems*	Policy
G Qiu, W Xu, L Li	Key factors to annual investment in public transportation sector: The case of China	Economics
R Merkert, C Mulley, M Hakim	Determinants of bus rapid transit (BRT) system revenue and effectiveness – A global benchmarking exercise*	Economics
T Takahashi	Economic analysis of tariff integration in public transport*	Economics
Z Chang, S Phang	Urban rail transit PPPs: Lessons from East Asian cities*	Organisation
J Morales Sarriera, F Salvucci, J Zhao	Worse than Baumol's disease: The implications of labor productivity, contracting out, and unionization on transit operation costs	Organisation

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