



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

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

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12-2017

# World Transit Research December 2017 Newsletter

Institute of Transport Studies Monash University

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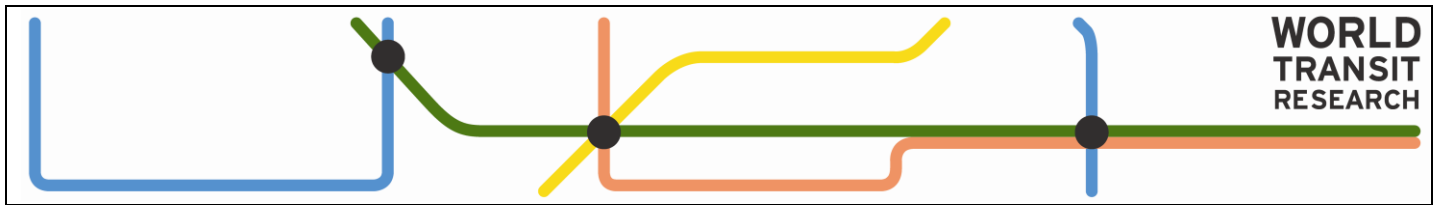
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**MONASH** University



## 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](http://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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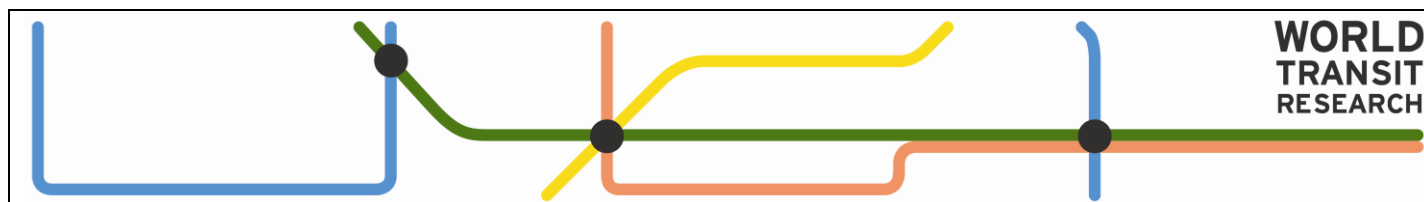
#### **JOURNAL SUBSCRIPTIONS**

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

#### **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](mailto:enquiries@worldtransitresearch.info)

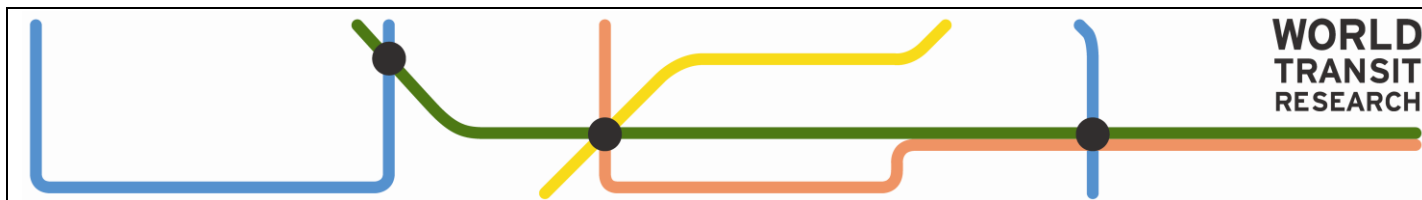
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## WORLD TRANSIT RESEARCH – NEW RESEARCH PUBLICATIONS

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

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



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

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