



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**

World Transit Research Newsletter

10-2017

World Transit Research October 2017 Newsletter

Institute of Transport Studies Monash University

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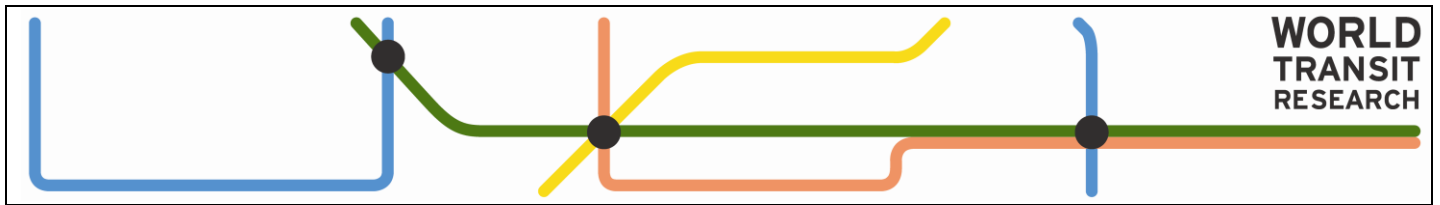
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MONASH University



World Transit Research October 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.

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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 6,584 research reports/papers. Some 82 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

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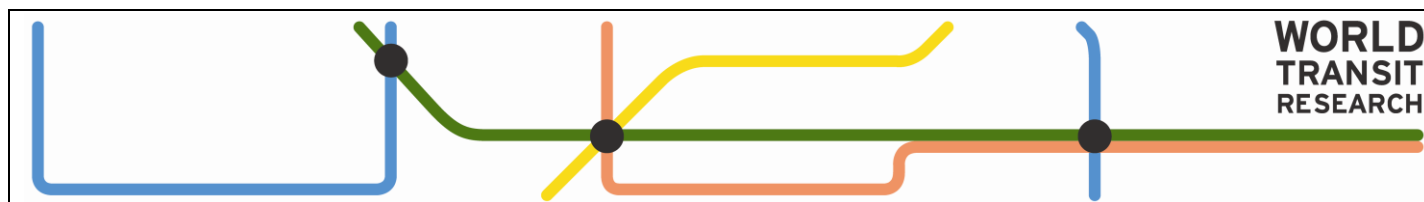
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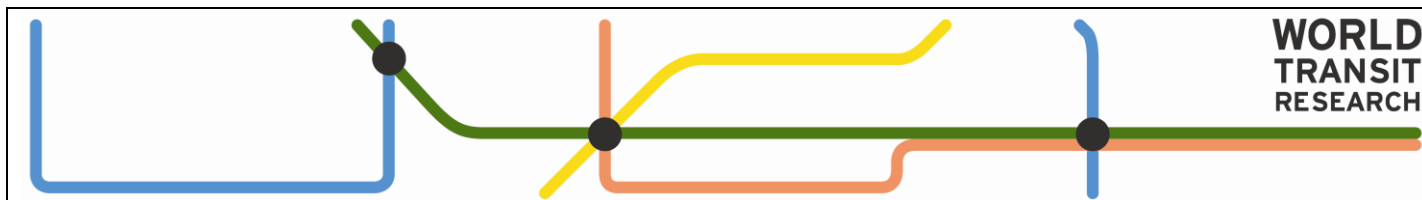
If you have any queries or suggestions on how to improve our publication, we would love to hear from you at: enquiries@worldtransitresearch.info

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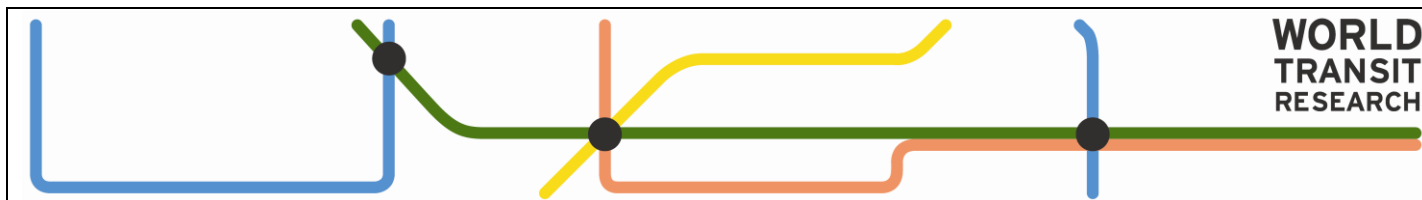


WORLD TRANSIT RESEARCH – NEW RESEARCH PUBLICATIONS

AUTHOR	TITLE	CATEGORY
J Ingvardson, J Jensen, O Nielsen	Analysing improvements to on-street public transport systems: a mesoscopic model approach*	Planning
S Sriukenthiran, A Shalaby	Enabling large-scale transit microsimulation for disruption response support using the Nexus platform*	Planning
C Viggiano, H Koutsopoulos, N Wilson, J Attanucci	Journey-based characterization of multi-modal public transportation networks*	Planning
J Spears, J Lutin, Y Wang, R Ke, S Clancy, Washington State Transit Insurance Pool	Active Safety-Collision Warning Pilot in Washington State	Planning
J Qiao, L Sun, X Liu, J Rong	Reducing the impact of speed dispersion on subway corridor flow*	Planning
E Codina, F Rosell	A heuristic method for a congested capacitated transit assignment model with strategies*	Planning
N May	Local environmental impact assessment as decision support for the introduction of electromobility in urban public transport systems*	Planning
R Madigan, T Louw, M Wilbrink, A Schieben, N Merat	What influences the decision to use automated public transport? Using UTAUT to understand public acceptance of automated road transport systems*	Planning
H Qin, J Gao, H Guan, H Chi	Estimating heterogeneity of car travelers on mode shifting behavior based on discrete choice models*	Planning
S Berrebi, E Hans, N Chiabaut, J Laval, L Leclercq, K Watkins	Comparing bus holding methods with and without real-time predictions*	Planning
Q Guo, J Chow, P Schonfeld	Stochastic dynamic switching in fixed and flexible transit services as market entry-exit real options*	Planning
T Liu, A Ceder	Integrated public transport timetable synchronization and vehicle scheduling with demand assignment: A bi-objective bi-level model using deficit function approach*	Planning
T Rye	The Scandinavian Way to Better Public Transport	Planning
L Ma, C Mulley, W Liu	Social marketing and the built environment: What matters for travel behaviour change?*	Planning
F Liao, B van Wee	Accessibility measures for robustness of the transport system*	Planning
L Sagaris, I Tiznado-Aitken, S Steiniger	Exploring the social and spatial potential of an intermodal approach to transport planning*	Planning
J Hahn, S Kho, K Choi, D Kim	Sustainability evaluation of rapid routes for buses with a network DEA model*	Planning
T Xia, Y Zhang, A Braunack-Mayer, S Crabb	Public attitudes toward encouraging sustainable transportation: An Australian case study*	Planning
C Liang, M Ghazel, O Cazier, E El-Koursi	A new insight on the risky behavior of motorists at railway level crossings: An observational field study*	Planning
G Boisjoly, A Moreno-Monroy, A El-Geneidy	Informality and accessibility to jobs by public transit: Evidence from the São Paulo Metropolitan Region*	Planning
T Hazledine, S Donovan, C Mak	Urban agglomeration benefits from public transit improvements: Extending and implementing the Venables model*	Planning
S Saidi, S Wirasinghe, L Kattan, S Esmailinejad	A generalized framework for complex urban rail transit network analysis*	Planning
Y Zhang, E Jenelius, K Kottenhoff	Impact of real-time crowding information: a Stockholm metro pilot study*	Planning
Y Xing, J Lu, S Chen, S Dissanayake	Vulnerability analysis of urban rail transit based on complex network theory: a case study of Shanghai Metro*	Planning
U Petruccelli, S Carleo	Cost models for local road transit*	Planning
P Seetharaman	Modelling risk aversion using a disaggregate stochastic process model in congested transit networks*	Planning
A Carrel, R Sengupta, J Walker	The San Francisco Travel Quality Study: tracking trials and tribulations of a transit taker*	Ridership
H Qin, J Gao, H Guan, H Chi	Estimating heterogeneity of car travelers on mode shifting behavior based on discrete choice models*	Ridership
M Yang, J Wu, S Rasouli, C Cirillo, D Li	Exploring the impact of residential relocation on modal shift in commute trips: Evidence from a quasi-longitudinal analysis*	Ridership
Y Wang, G Correia, E de Romph, H Timmermans	Using metro smart card data to model location choice of after-work activities: An application to Shanghai*	Ridership
Z Rashedi, M Mahmoud, S Hasnine, K Habib	On the factors affecting the choice of regional transit for commuting in Greater Toronto and Hamilton Area: Application of an advanced RP-SP choice model*	Ridership



G Sun, J Zacharias	Can bicycle relieve overcrowded metro? Managing short-distance travel in Beijing*	Ridership
L Liu, R Chen	A novel passenger flow prediction model using deep learning methods*	Ridership
D Mifsud, M Attard, S Ison	To drive or to use the bus? An exploratory study of older people in Malta*	Ridership
X Fu, Z Juan	Understanding public transit use behavior: integration of the theory of planned behavior and the customer satisfaction theory*	Ridership
O Cats, Y Susilo, T Reimal	The prospects of fare-free public transport: evidence from Tallinn*	Ridership
S Kim, J Chung, S Park, K Choi	Analysis of user satisfaction to promote public transportation: A pattern-recognition approach focusing on out-of-vehicle time*	Ridership
E Grison, J Burkhardt, V Gyselinck	How do users choose their routes in public transport? The effect of individual profile and contextual factors*	Ridership
T Julsrud, J Denstadli	Smartphones, travel time-use, and attitudes to public transport services. Insights from an explorative study of urban dwellers in two Norwegian cities*	Ridership
C Hoffmann, C Abraham, M White, S Ball, S Skippon	What cognitive mechanisms predict travel mode choice? A systematic review with meta-analysis*	Ridership
T Verhaegh, D Huisman, P Fiiole, J Vera	A heuristic for real-time crew rescheduling during small disruptions*	Operations
N Ghaemi, O Cats, R Goverde	Railway disruption management challenges and possible solution directions*	Operations
J Shi, Y Sun, P Schonfeld, J Qi	Joint optimization of tram timetables and signal timing adjustments at intersections*	Operations
J Janacek, M Kohani, M Koniorczyk, P Marton	Optimization of periodic crew schedules with application of column generation method*	Operations
S Binder, Y Maknoon, M Bierlaire	Exogenous priority rules for the capacitated passenger assignment problem*	Operations
W Zhang, W Xu	Simulation-based robust optimization for the schedule of single-direction bus transit route: The design of experiment*	Operations
M Nesheli, A Ceder, R Brissaud	Public transport service-quality elements based on real-time operational tactics*	Operations
Y Xu, B Jia, A Ghiasi, X Li	Train routing and timetabling problem for heterogeneous train traffic with switchable scheduling rules*	Operations
C Bueno-Cadena, J Munoz	Reducing metro trip times and energy consumption through speed control, holding and boarding limits*	Operations
T Liu, A Ceder, S Chowdhury	Integrated public transport timetable synchronization with vehicle scheduling*	Operations
B Milan, F Creutzig	Lifting peripheral fortunes: Upgrading transit improves spatial, income and gender equity in Medellin*	Land use
S Li, Z Pengjun	Exploring car ownership and car use in neighborhoods near metro stations in Beijing: Does the neighborhood built environment matter?*	Land use
K Wang, M Woo	The relationship between transit rich neighborhoods and transit ridership: Evidence from the decentralization of poverty*	Land use
H Yu, M Zhang, H Pang	Evaluation of transit proximity effects on residential land prices: an empirical study in Austin, Texas*	Land use
S Comber, D Arribas-Bel	Waiting on the train": The anticipatory (causal) effects of Crossrail in Ealing*	Land use
G Tian, R Ewing, R Weinberger, K Shively, P Stinger, S Hamidi	Trip and parking generation at transit-oriented developments: a case study of Redmond TOD, Seattle region*	Land use
C Hendrigan, P Newman	Dense, mixed-use, walkable urban precinct to support sustainable transport or vice versa? A model for consideration from Perth, Western Australia	Land use
H Pan, J Li, Q Shen, C Shi	What determines rail transit passenger volume? Implications for transit oriented development planning*	Land use
J Wang, X Cao	Exploring built environment correlates of walking distance of transit egress in the Twin Cities*	Land use
N Dürr, K Hüschelrath	Patterns of entry and exit in the deregulated German interurban bus industry*	Organisation
H Schalekamp	Lessons from building paratransit operators' capacity to be partners in Cape Town's public transport reform process*	Organisation
R Hrelja, J Monios, T Rye, K Isaksson, C Scholten	The interplay of formal and informal institutions between local and regional authorities when creating well-functioning public transport systems*	Organisation
J Rosell	Urban bus contractual regimes in small- and medium-sized municipalities: Competitive tendering or negotiation?*	Organisation
S Bakker, R Konings	The transition to zero-emission buses in public transport – The need for institutional innovation*	Organisation
R Buehler, J Pucher, A Altshuler	Vienna's path to sustainable transport*	Policy



D Hernandez	Uneven mobilities, uneven opportunities: Social distribution of public transport accessibility to jobs and education in Montevideo*	Policy
D Johnson, M Ercolani, P Mackie	Econometric analysis of the link between public transport accessibility and employment*	Policy
S Xu, R Liu, T Liu, H Huang	Pareto-improving policies for an idealized two-zone city served by two congestible modes*	Policy
A. Moreno-Monroy, R Lovelace, F Ramos	Public transport and school location impacts on educational inequalities: Insights from São Paulo*	Policy
Zi Liu, Z Song	Robust planning of dynamic wireless charging infrastructure for battery electric buses*	Technology
Tourism and Transport Forum	The Future of Mobility	Technology
G Sánchez-Martínez, N Wilson, H Koutsopoulos	Schedule-free high-frequency transit operations*	Technology
R Rückert, M Lemnian, C Blendinger, S Rechner, M Müller-Hannemann	PANDA: a software tool for improved train dispatching with focus on passenger flows*	Technology
L Bai, R Liu, F Wang, Q Sun, F Wang	Estimating railway rail service life: A rail-grid-based approach*	Infrastructure
Z Su, A Jamshidi, A Núñez, S Baldi, B De Schutter	Multi-level condition-based maintenance planning for railway infrastructures – A scenario-based chance-constrained approach*	Infrastructure
A Kunith, R Mendelevitch, D Goehlich	Electrification of a city bus network—An optimization model for cost-effective placing of charging infrastructure and battery sizing of fast-charging electric bus systems*	Infrastructure
S Bagloee, M Sarvi, A Ceder	Transit priority lanes in the congested road networks*	Infrastructure
F de Souza, L La Paix Puello, M Brussel, R Orrico, M van Maarseveen	Modelling the potential for cycling in access trips to bus, train and metro in Rio de Janeiro*	Mode
C Guevara	Mode-valued differences of in-vehicle travel time Savings*	Mode
K Halldórsdóttir, O Nielsen, C Prato	Home-end and activity-end preferences for access to and egress from train stations in the Copenhagen region*	Mode
Y Ji, Y Fan, A Ermagun, X Cao, W Wang, K Das	Public bicycle as a feeder mode to rail transit in China: The role of gender, age, income, trip purpose, and bicycle theft experience*	Mode
S Dandapat, M Cheranchery, B Maitra	Is fare increment desirable for ensuring operational viability of private buses?*	Economics

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