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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

8-2020

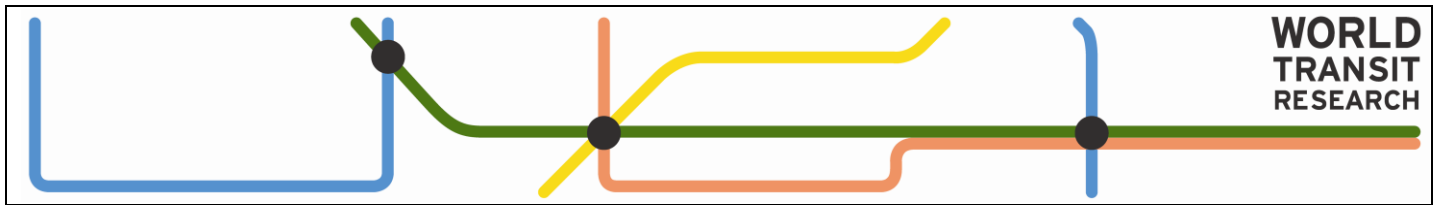
World Transit Research August 2020 Newsletter

Institute of Transport Studies Monash University

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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.

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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 7,960 research reports/papers. Some 98 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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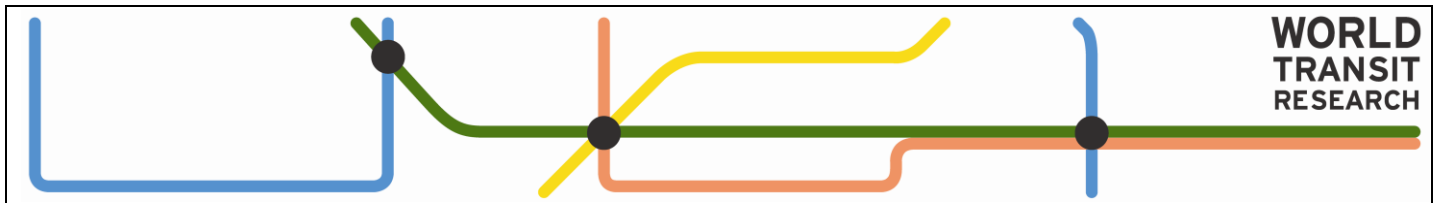
SUGGESTIONS WELCOMED

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

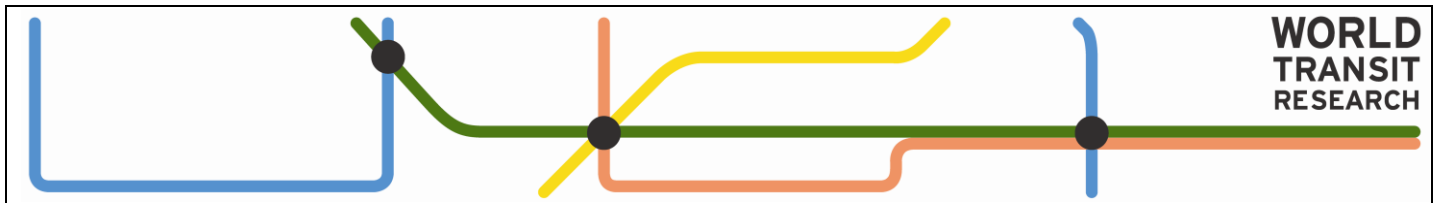
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WORLD TRANSIT RESEARCH – NEW RESEARCH PUBLICATIONS

AUTHOR	TITLE	CATEGORY
T Liljamo, H Liimatainen, M Pöllänen, R Utriainen	People’s current mobility costs and willingness to pay for Mobility as a Service offerings	Planning
R Guadamuz, V Gayah, R Paleti	Impact of Bus Routes on Crash Frequency in Metropolitan Areas	Planning
G Devitt, M Nesheli, E Diab, A Shalaby	Empirical Performance Analysis of Bus Speed and Delay at Intersections for Emerging Spot Improvement Programs	Planning
E König	A review on railway delay management	Planning
S Mathew, S Pulugurtha	Assessing the effect of a light rail transit system on road traffic travel time reliability	Planning
C Szymula, N Bešinović	Passenger-centered vulnerability assessment of railway networks	Planning
Y Kwon, J Byun, S Park	Exploring the determinants of bus drivers job satisfaction: Evidence from South Korea	Planning
M Deveci, S Öner, F Canitez, M Öner	Evaluation of service quality in public bus transportation using interval-valued intuitionistic fuzzy QFD methodology	Planning
W Yuan, H Frey	Potential for metro rail energy savings and emissions reduction via eco-driving	Planning
P Manser, H Becker, S Hörl, K Axhausen	Designing a large-scale public transport network using agent-based microsimulation	Planning
M Goletz, S Haustein, C Wolking, A L’Hostis	Intermodality in European metropolises: The current state of the art, and the results of an expert survey covering Berlin, Copenhagen, Hamburg and Paris	Planning
S Chowdhury, B van Wee	Examining women’s perception of safety during waiting times at public transport terminals	Planning
H Fitzová, M Matulová	Comparison of urban public transport systems in the Czech Republic and Slovakia: Factors underpinning efficiency	Planning
G Yoon, J Chow	Contextual Bandit-Based Sequential Transit Route Design under Demand Uncertainty	Planning
A Itani, S Srikukenthiran, A Shalaby	Capacity-Constrained Bus Bridging Optimization Framework	Planning
C Tang, A Ceder, Y Ge, N Wu	Optimal Operational Strategies for Multiple Bus Lines Considering Passengers’ Preferences	Planning
J Teng, W Pan, C Zhang	Quantitative Modeling of Congestion in Metro Station Based on Passenger Time Perceptions	Planning
K Agrawal, H Suman, N Bolia	Frequency Optimization Models for Reducing Overcrowding Discomfort	Planning
B Mo, Z Ma, H Koutsopoulos, J Zhao	Capacity-Constrained Network Performance Model for Urban Rail Systems	Planning
A Ghaffari, M Mesbah, A Khodaii	Designing a transit priority network under variable demand	Planning
M Hu, L Lu, J Yang	Exploring an estimation approach for the pedestrian level of service for metro stations based on an interaction index	Planning
C Iliopoulou, C Milioti, E Vlahogianni, K Kepaptsoglou	Identifying spatio-temporal patterns of bus bunching in urban networks	Planning
Y Tang, Y Jiang, H Yang, O Nielsen	Modeling and optimizing a fare incentive strategy to manage queuing and crowding in mass transit systems	Planning
B Majumdar, D Dissanayake, A Rajput, Y Saw, P Sahu	Prioritizing Metro Service Quality Attributes to Enhance Commuter Experience: TOPSIS Ranking and Importance Satisfaction Analysis Methods	Planning
S Nordhoff, J Stapel, B van Arem, R Happee	Passenger opinions of the perceived safety and interaction with automated shuttles: A test ride study with ‘hidden’ safety steward	Planning
J Hatzenbühler, O Cats, E Jenelius	Transitioning towards the deployment of line-based autonomous buses: Consequences for service frequency and vehicle capacity	Planning
O Egu, P Bonnel	How comparable are origin-destination matrices estimated from automatic fare collection, origin-destination surveys and household travel survey? An empirical investigation in Lyon	Planning
F Proboste, J Muñoz, A Gschwender	Comparing social costs of public transport networks structured around an Open and Closed BRT corridor in medium sized cities	Planning
J Toner, M Wardman, J Shires, F Teklu, A Hatfield	Enhancing rail direct demand models with competition between ticket types using contributions from economic theory and market research	Planning



N Zgheib, M Abou-Zeid, I Kaysi	Modeling demand for ridesourcing as feeder for high capacity mass transit systems with an application to the planned Beirut BRT	Planning
I Sharma, S Mishra, M Golias, T Welch, C Cherry	Equity of transit connectivity in Tennessee cities	Planning
P Krishnakumari, O Cats, H van Lint	Estimation of metro network passenger delay from individual trajectories	Planning
S Berrebi, K Watkins	Who's ditching the bus?	Ridership
I Kamel, A Shalaby, B Abdulhai	A modelling platform for optimizing time-dependent transit fares in large-scale multimodal networks	Ridership
J Terry, C Bachmann	Spatial Characteristics of Transit-Integrated Ridesourcing Trips and Their Competitiveness with Transit and Walking Alternatives	Ridership
E Rahimi, A Shamshirpour, R Shebanpour, A Mohammadian, J Auld	Analysis of Transit Users' Response Behavior in Case of Unplanned Service Disruptions	Ridership
A Webb, A Khani	Park-and-Ride Choice Behavior in a Multimodal Network with Overlapping Routes	Ridership
N Islam, M Talukder, A Hainen, T Atkison	Characterizing co-modality in urban transit systems from a passengers' perspective	Ridership
A Devaraj, G Ramakrishnan, G Nair, K Srinivasan, C Bhat, A Pinjari, G Ramadurai, R Pendyala	Joint Model of Application-Based Ride Hailing Adoption, Intensity of Use, and Intermediate Public Transport Consideration among Workers in Chennai City	Ridership
C Boyd	Revisiting the foundations of fare evasion research	Ridership
R Espino, C Román	Valuation of transfer for bus users: The case of Gran Canaria	Ridership
A Ni, C Zhang, Y Hu, W Lu, H Li	Influence mechanism of the corporate image on passenger satisfaction with public transport in China	Ridership
E Shin	Commuter benefits programs: Impacts on mode choice, VMT, and spillover effects	Ridership
F Liao, Q Tian, T Arentze, H Huang, H Timmermans	Travel preferences of multimodal transport systems in emerging markets: The case of Beijing	Ridership
S Choi, P Mokhtarian	How attractive is it to use the internet while commuting? A work-attitude-based segmentation of Northern California commuters	Ridership
J Kim, J Schmöcker, T Nakamura, N Uno, T Iwamoto	Integrated impacts of public transport travel and travel satisfaction on quality of life of older people	Ridership
F Crawford	Segmenting travellers based on day-to-day variability in work-related travel behaviour	Ridership
V Van Acker, L Ho, L Stevens, C Mulley	Quantifying the effects of childhood and previous residential experiences on the use of public transport	Ridership
A Shamshirpour, E Rahimi, R Shabanpour, A Mohammadian	Dynamics of travelers' modality style in the presence of mobility-on-demand services	Ridership
J Onninen, T Hakola, S Puttonen, A Tolvanen, J Virkkala, M Sallinen	Sleep and sleepiness in shift-working tram drivers	Ridership
Z Sun, J Zacharias	Transport equity as relative accessibility in a megacity: Beijing	Land use
I Nilsson, E Delmelle	Impact of new rail transit stations on neighborhood destination choices and income segregation	Land use
T Vongpraseuth, E Seong, S Shin, S Kim, C Choi	Hope and reality of new towns under greenbelt regulation: The case of self-containment or transit-oriented metropolises of the first-generation new towns in the Seoul Metropolitan Area, South Korea	Land use
Y Guo, S He	Built environment effects on the integration of dockless bike-sharing and the metro	Land use
R Wang, Y Lu, X Wu, Y Liu, Y Yao	Relationship between eye-level greenness and cycling frequency around metro stations in Shenzhen, China: A big data approach	Land use
H Zhang	Metro and urban growth: Evidence from China	Land use
Y Liu, A Singleton, D Arribas-Bel	Considering context and dynamics: A classification of transit-orientated development for New York City	Land use
Y Jiang, P Gu, Z Cao, Y Chen	Impact of Transit-Oriented Development on Residential Property Values around Urban Rail Stations	Land use
C Yin, C Shao, X Wang	Exploring the impact of built environment on car use: does living near urban rail transit matter?	Land use
W Wu, S Zheng, B Wang, M Du	Impacts of rail transit access on land and housing values in China: a quantitative synthesis	Land use



G Purifoye	Transit boundaries: race and the paradox of immobility within mobile systems	Land use
I Nilsson, J Schuch, E Delmelle, K Canales	Should I stay or should I go? A survey analysis of neighborhood change and residential mobility concerns around new light rail stations in Charlotte, NC	Land use
O Filippova, M Sheng	Impact of bus rapid transit on residential property prices in Auckland, New Zealand	Land use
R Huang	Transit-based job accessibility and urban spatial structure	Land use
J Lee, H Miller	Robust accessibility: Measuring accessibility based on travelers' heterogeneous strategies for managing travel time uncertainty	Land use
V Cacchiani, J Qi, L Yang	Robust optimization models for integrated train stop planning and timetabling with passenger demand uncertainty	Operations
S Yang, A Ahmad, P Park, G Sohn, J Krygsman	Public Transit Service Reliability Assessment using Two-Fluid Model	Operations
K Obeng	On incentives and optimal effort to improve bus transit performance	Operations
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J Zhou, H Koutsopoulos, S Saidi	Evaluation of Subway Bottleneck Mitigation Strategies using Microscopic, Agent-Based Simulation	Operations
A Chepuri, S Joshi, S Arkatkar, G Joshi, A Bhaskar	Development of new reliability measure for bus routes using trajectory data	Operations
X Guo, J Wu, H Sun, X Yang, J Gang Jin, D Wang	Scheduling synchronization in urban rail transit networks: Trade-offs between transfer passenger and last train operation	Operations
X Dong, D Li, Y Yin, S Ding, Z Cao	Integrated optimization of train stop planning and timetabling for commuter railways with an extended adaptive large neighborhood search metaheuristic approach	Operations
C Bueno-Cadena, J Munoz, A Tirachini	An analytical model for controlling disruptions on a metro line	Operations
S Hossan, N Nower	Fog-based dynamic traffic light control system for improving public transport	Technology
A Webb, P Kumar, A Khani	Estimation of passenger waiting time using automatically collected transit data	Technology
C Brakewood, A Zeidan, S Hendricks, S Barbeau, A Joslin	An evaluation of the benefits of mobile fare payment technology from the user and operator perspectives	Technology
R Arbex, C Cunha	Estimating the influence of crowding and travel time variability on accessibility to jobs in a large public transport network using smart card big data	Technology
H Zhang, J Peng, H Tan, H Dong, F Ding, B Ran	Tackling SOC long-term dynamic for energy management of hybrid electric buses via adaptive policy optimization	Technology
D López, A Lozano	Shortest hyperpaths in a multimodal hypergraph with real-time information on some transit lines	Technology
E Jenelius	Personalized predictive public transport crowding information with automated data sources	Technology
D Hernandez, M Hansz, R Massobrio	Job accessibility through public transport and unemployment in Latin America: The case of Montevideo (Uruguay)	Policy
Z Li, L Zhang	The two-mode problem with bottleneck queuing and transit crowding: How should congestion be priced using tolls and fares?	Policy
L Meng, S Somenahalli, S Berry	Policy implementation of multi-modal (shared) mobility: review of a supply-demand value proposition canvas	Policy
L Böcker, E Anderson, T Uteng, T Throndsen	Bike sharing use in conjunction to public transport: Exploring spatiotemporal, age and gender dimensions in Oslo, Norway	Policy
C Liu, D Duan	Spatial inequality of bus transit dependence on urban streets and its relationships with socioeconomic intensities: A tale of two megacities in China	Policy
J Sepúlveda, P Galilea	How do different payment schemes to operators affect public transport concessions? A microeconomic model	Economics
D Baker, S Kim	What remains? The influence of light rail transit on discretionary income	Economics
A Avenali, G Catalano, T D'Alfonso, G Matteucci	The allocation of national public resources in the Italian local public bus transport sector	Economics

A Anupriya, D Graham, J Carbo, R Anderson, P Bansal	Understanding the costs of urban rail transport operations	Economics
A Matas, J Raymond, A Ruiz	Economic and distributional effects of different fare schemes: Evidence from the Metropolitan Region of Barcelona	Economics
A Vij, S Ryan, S Sampson, S Harris	Consumer preferences for Mobility-as-a-Service (MaaS) in Australia	Mode
E Kassens-Noor, Z Kotval-Karamchandani, M Cai	Willingness to ride and perceptions of autonomous public transit	Mode
H Kong, X Zhang, J Zhao	How does ridesourcing substitute for public transit? A geospatial perspective in Chengdu, China	Mode
W Emiliano, F Alvelos, J Telhada, E Lanzer	An optimization model for bus fleet replacement with budgetary and environmental constraints	Infrastructure
D Dreier, B Rudin, M Howells	Comparison of management strategies for the charging schedule and all-electric operation of a plug-in hybrid-electric bi-articulated bus fleet	Infrastructure
C Nash, A Smith	Public transport procurement in Britain	Organisation
D Nguyen-Phuoc, W Young, G Currie, C De Gruyter	Traffic congestion relief associated with public transport: state-of-the-art	Literature Review

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