



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

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

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World Transit Research Newsletter

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4-2020

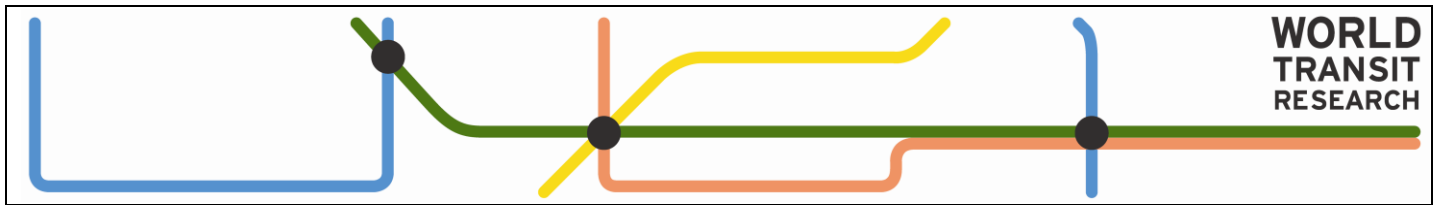
## **World Transit Research April 2020 Newsletter**

Institute of Transport Studies Monash University

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## World Transit Research

### April 2020 Newsletter

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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 7,765 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](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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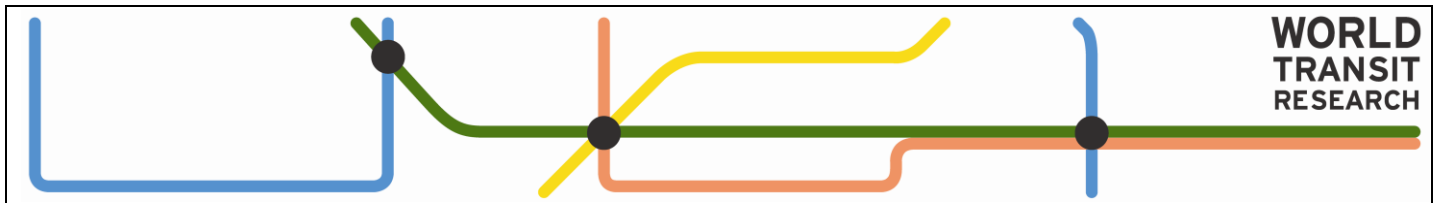
#### **SUGGESTIONS WELCOMED**

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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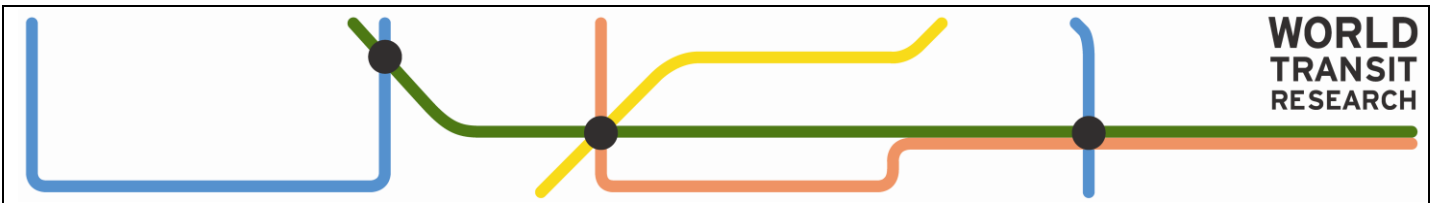
**WORLD TRANSIT RESEARCH – NEW RESEARCH PUBLICATIONS**

<b>AUTHOR</b>	<b>TITLE</b>	<b>CATEGORY</b>
M Young, J Allen, S Farber	<a href="#">Measuring when Uber behaves as a substitute or supplement to transit: An examination of travel-time differences in Toronto</a>	Planning
<b>L Aston, G Currie, M Kamruzzaman, A Delbosc, D Teller</b>	<a href="#">Study design impacts on built environment and transit use research</a>	<b>Planning</b>
J Chai, J Lee	<a href="#">Extending public transit accessibility models to recognise transfer location</a>	Planning
G D'Orso, M Migliore	<a href="#">A GIS-based method for evaluating the walkability of a pedestrian environment and prioritised investments</a>	Planning
G Boisjoly, B Serra, G Oliveira, A El-Geneidy	<a href="#">Accessibility measurements in São Paulo, Rio de Janeiro, Curitiba and Recife, Brazil</a>	Planning
O Cats, A Vermeulen, M Warnier, H van Lint	<a href="#">Modelling growth principles of metropolitan public transport networks</a>	Planning
H Lee, H Park, S Kho, D Kim	<a href="#">Assessing transit competitiveness in Seoul considering actual transit travel times based on smart card data</a>	Planning
D Luo, O Cats, H van Lint, G Currie	<a href="#">Integrating network science and public transport accessibility analysis for comparative assessment</a>	Planning
Y Wang, Y Deng, F Ren, R Zhu, P Wang, T Du, Q Du	<a href="#">Analysing the spatial configuration of urban bus networks based on the geospatial network analysis method</a>	Planning
L Wu, H Xia, X Wang, Q Dong, C Lin, X Liu, R Liang	<a href="#">Indoor air quality and passenger thermal comfort in Beijing metro transfer stations</a>	Planning
D Huan, Y Gu, S Wang, Z Liu, W Zhang	<a href="#">A two-phase optimization model for the demand-responsive customized bus network design</a>	Planning
B Bezerra, A dos Santos, D Delmonico	<a href="#">Unfolding barriers for urban mobility plan in small and medium municipalities – A case study in Brazil</a>	Planning
M Bellizzi, L dell'Olio, L Eboli, G Mazzulla	<a href="#">Heterogeneity in desired bus service quality from users' and potential users' perspective</a>	Planning
S Nocera, A Fabio, F Cavallaro	<a href="#">The adoption of grid transit networks in non-metropolitan contexts</a>	Planning
M Irawan, P Belgiawan, T Joewono, N Simanjuntak	<a href="#">Do motorcycle-based ride-hailing apps threaten bus ridership? A hybrid choice modeling approach with latent variables</a>	Planning
B Mehran, Y Yang, S Mishra	<a href="#">Analytical models for comparing operational costs of regular bus and semi-flexible transit services</a>	Planning
A Soltanpour, M Mesbah, M Habibian	<a href="#">Customer satisfaction in urban rail: a study on transferability of structural equation models</a>	Planning
B Assemi, A Alsger, M Moghaddam, M Hickman, M Mesbah	<a href="#">Improving alighting stop inference accuracy in the trip chaining method using neural networks</a>	Planning
O Egu, P Bonnel	<a href="#">Can we estimate accurately fare evasion without a survey? Results from a data comparison approach in Lyon using fare collection data, fare inspection data and counting data</a>	Planning
M Heidari, S Hosseini-Motlagh, N Nikoo	<a href="#">A subway planning bi-objective multi-period optimization model integrating timetabling and vehicle scheduling: a case study of Tehran</a>	Planning
B Dhivya Bharathi, B Anil Kumar, A Achar, L Vanajakshi	<a href="#">Bus travel time prediction: a log-normal auto-regressive (AR) modelling approach</a>	Planning
S Pefitsi, E Jenelius, O Cats	<a href="#">Determinants of passengers' metro car choice revealed through automated data sources: a Stockholm case study</a>	Planning
N Olikier, S Bekhor	<a href="#">An infeasible start heuristic for the transit route network design problem</a>	Planning
D Esztergár-Kiss, Z Rózsa, T Tettamanti	<a href="#">An activity chain optimization method with comparison of test cases for different transportation modes*</a>	Planning
Transportation Research Board	<a href="#">New IDEAS for Transit: Transit IDEA Program Annual Report</a>	Planning
Transportation Research Board	<a href="#">New IDEAs for Rail Safety: Annual Report of the Rail Safety IDEA Program</a>	Planning
J Luna, E Macheck, S Peirce	<a href="#">Considerations for Evaluating Automated Transit Bus Programs</a>	Planning
L Staes, J Godfrey, J Flynn, M Spicer, G Saliceto, R Yegidis	<a href="#">Current Practices in the Use of Onboard Technologies to Avoid Transit Bus Incidents and Accidents</a>	Planning
International Transport Forum	<a href="#">Reforming Public Transport Planning and Delivery</a>	Planning
Transportation Research Board	<a href="#">Innovation in Action: Accomplishments of the Transit IDEA (Innovations Deserving Exploratory Analysis) Program</a>	Planning



S Luo, Y Nie	<a href="#">Paired-line hybrid transit design considering spatial heterogeneity</a>	Planning
M Bell, J Pan, C Teye, K Cheung, S Parera	<a href="#">An entropy maximizing approach to the ferry network design problem</a>	Planning
N Leng, F Corman	<a href="#">The role of information availability to passengers in public transport disruptions: An agent-based simulation approach*</a>	Planning
C De Gruyter, L Truong, E Taylor	<a href="#">Can high quality public transport support reduced car parking requirements for new residential apartments?</a>	Land use
P Pezeshknejad, S Monajem, H Mozafari	<a href="#">Evaluating sustainability and land use integration of BRT stations via extended node place model, an application on BRT stations of Tehran</a>	Land use
H Bwire, E Zengo	<a href="#">Comparison of efficiency between public and private transport modes using excess commuting: An experience in Dar es Salaam</a>	Land use
T Tao, J Wang, X Cao	<a href="#">Exploring the non-linear associations between spatial attributes and walking distance to transit</a>	Land use
R Camporeale, A Wretstrand, M Andersson	<a href="#">How the built environment and the railway network can affect the mobility of older people: Analyses of the southern Swedish region of Scania</a>	Land use
Y Liu, D Yang, H Timmermans, B de Vries	<a href="#">Analysis of the impact of street-scale built environment design near metro stations on pedestrian and cyclist road segment choice: A stated choice experiment</a>	Land use
K Liu, P Qiu, S Gao, F Lu, J Jiang, L Yin	<a href="#">Investigating urban metro stations as cognitive places in cities using points of interest</a>	Land use
P Phani Kumar, C Ravi Sekhar, M Parida	<a href="#">Identification of neighborhood typology for potential transit-oriented development</a>	Land use
A Ibraeva, G Correia, C Silva, A Antunes	<a href="#">Transit-oriented development: A review of research achievements and challenges</a>	Land use
M Mc Gettrick	<a href="#">The role of city geometry in determining the utility of a small urban light rail/tram system</a>	Land use
A Nasri, C Carrion, L Zhang, B Baghaei	<a href="#">Using propensity score matching technique to address self-selection in transit-oriented development (TOD) areas</a>	Land use
S Karnberger, C Antoniou	<a href="#">Network-wide prediction of public transportation ridership using spatio-temporal link-level information</a>	Ridership
B Bereitschaft	<a href="#">Gentrification and the evolution of commuting behavior within America's urban cores, 2000–2015</a>	Ridership
K Negishi, D Bissell	<a href="#">Transport imaginations: Passenger experiences between freedom and constraint</a>	Ridership
L Kostyniuk, C D'Souza	<a href="#">Effect of passenger encumbrance and mobility aid use on dwell time variability in low-floor transit vehicles</a>	Ridership
A Vij, S Ryan, S Sampson, S Harris	<a href="#">Consumer preferences for on-demand transport in Australia</a>	Ridership
Z Zhu, X Qin, J Ke, Z Zheng, H Yang	<a href="#">Analysis of multi-modal commute behavior with feeding and competing ridesplitting services</a>	Ridership
I Spyropoulou	<a href="#">Impact of public transport strikes on the road network: The case of Athens</a>	Ridership
Z Gan, M Yang, T Feng, H Timmermans	<a href="#">Understanding urban mobility patterns from a spatiotemporal perspective: daily ridership profiles of metro stations</a>	Ridership
Z Shi, N Zhang, P Schonfeld, J Zhang	<a href="#">Short-term metro passenger flow forecasting using ensemble-chaos support vector regression</a>	Ridership
K Watkins, S Berrebi, C Diffie, B Kiriazes, D Ederer	<a href="#">Analysis of Recent Public Transit Ridership Trends</a>	Ridership
T Wright	<a href="#">The gendered impacts of technological change for public transport workers in the Global South</a>	Policy
A Lubitow, M Abelson, E Carpenter	<a href="#">Transforming mobility justice: Gendered harassment and violence on transit</a>	Policy
C Plano, R Behrens, M Zuidgeest	<a href="#">Towards evening paratransit services to complement scheduled public transport in Cape Town: A driver attitudinal survey of alternative policy interventions</a>	Policy
P Christiansen	<a href="#">The effects of transportation priority congruence for political legitimacy</a>	Policy
J Bláfoss Ingvarðson, S Kaplan, J de Abreu e Silva, F di Ciommo, Y Shiftan, O Nielsen	<a href="#">Existence, relatedness and growth needs as mediators between mode choice and travel satisfaction: evidence from Denmark</a>	Policy
F Sha, B Li, Y Guo, Y Law, P Yip, Y Zhang	<a href="#">Effects of the Transport Support Scheme on employment and commuting patterns among public rental housing residents in Hong Kong</a>	Policy

O Pasha, C Wyczalkowski, D Sohrabian, I Lendel	<a href="#">Transit effects on poverty, employment, and rent in Cuyahoga County, Ohio</a>	Policy
J Wang, H Wang, X Zhang	<a href="#">A hybrid management scheme with parking pricing and parking permit for a many-to-one park and ride network</a>	Policy
F Rosero, N Fonseca, J López, J Casanova	<a href="#">Real-world fuel efficiency and emissions from an urban diesel bus engine under transient operating conditions</a>	Technology
F Hänseler, J van den Heuvel, O Cats, W Daamen, S Hoogendoorn	<a href="#">A passenger-pedestrian model to assess platform and train usage from automated data*</a>	Technology
Z Li, S Lo, J Ma, X Luo	<a href="#">A study on passengers' alighting and boarding process at metro platform by computer simulation</a>	Technology
M Redmond, A Campbell, J Ehmke	<a href="#">Data-driven planning of reliable itineraries in multi-modal transit networks</a>	Technology
Y Zhang, E Yao, K Zheng, H Xu	<a href="#">Metro passenger's path choice model estimation with travel time correlations derived from smart card data</a>	Technology
J Kok, R Lipták	<a href="#">Multimodal Fare Payment Integration</a>	Technology
P Carleton, S Hoover, B Fields, M Barnes, J Porter	<a href="#">GTFS-Ride: Unifying Standard for Fixed-Route Ridership Data</a>	Technology
Y Huang, C Mannino, L Yang, T Tang	<a href="#">Coupling time-indexed and big-M formulations for real-time train scheduling during metro service disruptions</a>	Technology
B Lahoopoor, D Levinson	<a href="#">Catchment if you can: The effect of station entrance and exit locations on accessibility</a>	Infrastructure
A Harris, D Soban, B Smyth, R Best	<a href="#">A probabilistic fleet analysis for energy consumption, life cycle cost and greenhouse gas emissions modelling of bus technologies</a>	Infrastructure
<b>K An</b>	<a href="#">Battery electric bus infrastructure planning under demand uncertainty</a>	<b>Infrastructure</b>
L Seman, L Koehler, E Compongara, W Kraus Jr.	<a href="#">Integrated headway and bus priority control in transit corridors with bidirectional lane segments</a>	Infrastructure
D Davis, S Dick, S Wilk, M Jones, Y Zeng	<a href="#">Review of Track Inspection and Maintenance Standards for Transit</a>	Infrastructure
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Y Mahjoub, A Nait-Sidi-Moh, E El Alaoui, A Tajer	<a href="#">Petri nets conflicts resolution for performance evaluation and control of urban bus networks: a (max, +)-based approach</a>	Operations
A Danaher, J Wensley, A Dunham, T Orosz, R Avery, D Turner, K Cobb, K Watkins, C Queen, S Berrebi, M Connor, J McLaughlin	<a href="#">Minutes Matter: A Bus Transit Service Reliability Guidebook</a>	Operations
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A Vigren	<a href="#">The Distance Factor in Swedish Bus Contracts How far are operators willing to go?</a>	Organisation
D Nelson, K O'Neil	<a href="#">US Commuter Rail Renaissance: A 30-Year Progress Report</a>	Organisation
C Campos-Alba, D Prior, G Pérez-López, J Zafra-Gómez	<a href="#">Long-term cost efficiency of alternative management forms for urban public transport from the public sector perspective</a>	Organisation



A Gómez-Lobo	<a href="#">Transit reforms in intermediate cities of Colombia: An ex-post evaluation</a>	Mode
D Yao, L Xu, J Li	<a href="#">Does technical efficiency play a mediating role between bus facility scale and ridership attraction? Evidence from bus practices in China</a>	Mode
C Lyman, N Campbell, E Gonzales, E Christofa	<a href="#">Modeling the Effect of New Commuter Bus Service on Demand and Impact on Greenhouse Gas Emissions: Application to Greater Boston</a>	Mode
B Barabino, C Lai, A Olivio	<a href="#">Fare evasion in public transport systems: a review of the literature</a>	Literature Review

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