



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

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World Transit Research Newsletter

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12-2022

## **World Transit Research December 2022 Newsletter**

Institute of Transport Studies Monash University

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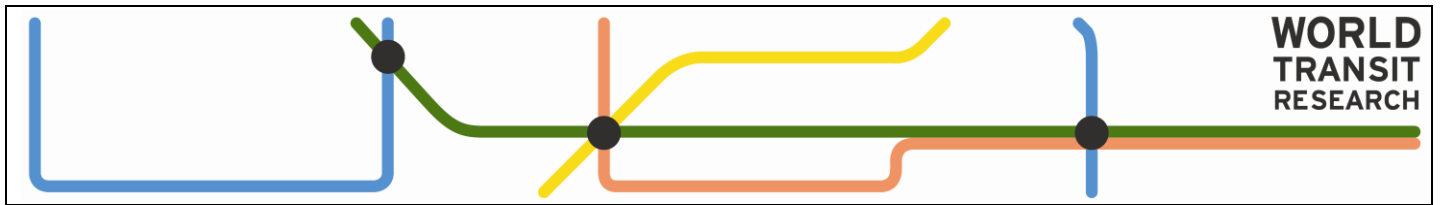
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## World Transit Research December 2022 Newsletter

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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
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**WORLD TRANSIT RESEARCH – NEW RESEARCH PUBLICATIONS**

| <b>AUTHOR</b>   | <b>TITLE</b>   | <b>CATEGORY</b> |
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| X Li, Y Wu, A Khani   | <a href="#">Investigating a small-sized bike-sharing system's impact on transit usage: a synthetic control analysis in Tucson, Arizona</a>                                 | Planning        |
| A Ait-Ali, J Eliasson   | <a href="#">The value of additional data for public transport origin–destination matrix estimation*</a>  | Planning        |
| G Canbulut, E Köse, O Arik  | <a href="#">Public transportation vehicle selection by the grey relational analysis method</a>   | Planning        |
| J Godfrid, P Radnic, A Vaisman, E Zimányi   | <a href="#">Analyzing public transport in the city of Buenos Aires with MobilityDB*</a>  | Planning        |
| T Nævestad, R Elvik, V Milch, K Karlsen, R Phillips   | <a href="#">Traffic safety in bus transport: An analysis of Norway's largest transit authority's contract requirements to bus companies</a>                                | Planning        |
| Q Tian, D Wang, Y Lin   | <a href="#">Optimal deployment of autonomous buses into a transit service network</a>  | Planning        |
| Y Fan, J Ding, H Liu, Y Wang, J Long  | <a href="#">Large-scale multimodal transportation network models and algorithms-Part I: The combined mode split and traffic assignment problem</a>                         | Planning        |
| T Jin, L Cheng, X Zhang, J Cao, X Qian, F Witlox  | <a href="#">Nonlinear effects of the built environment on metro-integrated ridesourcing usage</a>  | Planning        |
| J Zhang, X Zhang  | <a href="#">A multi-trip electric bus routing model considering equity during short-notice evacuations</a>   | Planning        |
| Y Zhou, H Wang, Y Wang, R Li  | <a href="#">Robust optimization for integrated planning of electric-bus charger deployment and charging scheduling</a>   | Planning        |
| Y Wang, F Liao, C Lu  | <a href="#">Integrated optimization of charger deployment and fleet scheduling for battery electric buses*</a>   | Planning        |
| T Bills, R Twumasi-Boakye, A Broaddus, J Fishelson  | <a href="#">Towards transit equity in Detroit: An assessment of microtransit and its impact on employment accessibility</a>  | Planning        |
| Y Sunitiyoso, P Belgiawan, M Rizki, V Hasyimi   | <a href="#">Public acceptance and the environmental impact of electric bus services</a>  | Planning        |
| Z Tong, R An, Z Zhang, Y Liu, M Luo   | <a href="#">Exploring non-linear and spatially non-stationary relationships between commuting burden and built environment correlates</a>                                  | Planning        |
| T Rongen, T Tillema, J Arts, M Alonso-González, J Witte   | <a href="#">An analysis of the mobility hub concept in the Netherlands: Historical lessons for its implementation*</a>   | Planning        |
| M Kamargianni, C Georgouli, L Tronca, M Chaniotakis   | <a href="#">Changing transport planning objectives during the Covid-19 lockdowns: Actions taken and lessons learned for enhancing sustainable urban mobility planning*</a> | Planning        |
| A Jami, J Petrunic, A Shalaby   | <a href="#">Evaluating greenhouse gas emission of transit agencies: A case study of Ontario, Canada</a>  | Planning        |
| S Perumal, J Larsen, R Lusby, M Riis, T Christensen   | <a href="#">A column generation approach for the driver scheduling problem with staff cars</a>   | Planning        |
| A Musina, A Abduldayeva, B Suleimenov, Z Sembaev, R Suleimenova, M Myrzakhanova, S Urazova, D Assambayeva, N Galimgozhina, V Osipov, K Ospanova, T Zhakupova, A Kazbekova | <a href="#">The psychophysiological status of rail traffic operators and modern approaches to its correction</a>   | Planning        |
| J Liu, M He, P Schonfeld, H Kato, A Li  | <a href="#">Measures of accessibility incorporating time reliability for an urban rail transit network: A case study in Wuhan, China</a>                                   | Planning        |
| S Hossain, K Habib  | <a href="#">Inferring origin and destination zones of transit trips through fusion of smart card transactions, travel surveys, and land-use data</a>                       | Planning        |
| J Chen, J Geng, G Gao, W Luo, Y Liu, K Li   | <a href="#">Mitigation of subway-induced low-frequency vibrations using a wave impeding block</a>  | Planning        |
| M Kar, S Sadhukhan, M Parida  | <a href="#">Assessing commuters' perceptions towards improvement of intermediate public transport as access modes to metro stations</a>                                    | Planning        |
| P Christidis, E Navajas Cawood, D Fiorello  | <a href="#">Challenges for urban transport policy after the Covid-19 pandemic: Main findings from a survey in 20 European cities*</a>                                      | Planning        |
| Z Ma, X Yang, J Wu, A Chen, Y Wei, Z Gao  | <a href="#">Measuring the resilience of an urban rail transit network: A multi-dimensional evaluation model</a>  | Planning        |
| R Shao, B Derudder, Y Yang  | <a href="#">Metro accessibility and space-time flexibility of shopping travel: A propensity score matching analysis</a>  | Planning        |

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| C Garau, G Desogus, B Barabino, M Coni                   | <a href="#">Accessibility and Public Transport Mobility for a Smart(er) Island: Evidence from Sardinia (Italy)</a>   | Planning   |
| F Piras, E Sottile, G Tuveri, I Meloni                   | <a href="#">Does the joint implementation of hard and soft transportation policies lead to travel behavior change? An experimental analysis</a>                            | Planning   |
| M Borsati, S Nocera, M Percoco                           | <a href="#">Questioning the spatial association between the initial spread of COVID-19 and transit usage in Italy*</a>   | Planning   |
| N Marazi, B Majumdar, P Sahu, D Potoglou                 | <a href="#">Congestion pricing acceptability among commuters: An Indian perspective</a>  | Planning   |
| J De Vos, E Waygood, L Letarte, M Cao                    | <a href="#">Do frequent satisfying trips by public transport impact its intended use in later life?*</a>   | Ridership  |
| K Gao, M Shao, K Axhausen, L Sun, H Tu, Y Wang           | <a href="#">Inertia effects of past behavior in commuting modal shift behavior: interactions, variations and implications for demand estimation</a>                        | Ridership  |
| J Ingvardson, O Nielsen                                  | <a href="#">The influence of vicinity to stations, station characteristics and perceived safety on public transport mode choice: a case study from Copenhagen</a>          | Ridership  |
| C Mützel, J Scheiner                                     | <a href="#">Investigating spatio-temporal mobility patterns and changes in metro usage under the impact of COVID-19 using Taipei Metro smart card data*</a>                | Ridership  |
| L Butler, T Yigitcanlar, A Paz, W Areed                  | <a href="#">How can smart mobility bridge the first/last mile gap? Empirical evidence on public attitudes from Australia</a>   | Ridership  |
| Z Zhang, G Zhai, K Xie, F Xiao                           | <a href="#">Exploring the nonlinear effects of ridesharing on public transit usage: A case study of San Diego</a>  | Ridership  |
| R Camilleri, M Attard, R Hickman                         | <a href="#">Understanding barriers to modal shift in Malta: A practice-theoretical perspective of everyday mobility</a>  | Ridership  |
| J Villena-Sanchez, E Boschmann, S Avila-Forcada          | <a href="#">Daily travel behaviors and transport mode choice of older adults in Mexico City</a>  | Ridership  |
| E Jin, D Kim, J Jin                                      | <a href="#">Commuting time and perceived stress: Evidence from the intra- and inter-city commuting of young workers in Korea</a>   | Ridership  |
| J Kapitza  | <a href="#">How people get to work at night. A discrete choice model approach towards the influence of nighttime on the choice of transport mode for commuting to work</a> | Ridership  |
| P Wu, L Xu, L Zhong, K Gao, X Qu, M Pei                  | <a href="#">Revealing the determinants of the intermodal transfer ratio between metro and bus systems considering spatial variations*</a>                                  | Ridership  |
| S Amin, J Adah   | <a href="#">COVID-19 influence on commuters' attitude towards riding public buses for essential trips*</a>   | Ridership  |
| C Cui, X Han, Q Zhou, M Xu, B Xia, M Skitmore, Y Liu     | <a href="#">Impact of passengers' perceptions of social responsibility activities on the efficacy of PPP urban rail transit projects</a>                                   | Ridership  |
| Z Duan, X Liu, Q Yu, Y Li                                | <a href="#">Analyzing detour behavior of metro passengers based on mobile phone data</a>   | Ridership  |
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| M Irawan, F Bastarianto, M Rizki, P Belgiawan, T Joewono | <a href="#">Exploring the frequency of public transport use among adolescents: a study in Yogyakarta, Indonesia</a>  | Ridership  |
| D Liu, C Zhao, H Dong, Z Huang                           | <a href="#">Spatial analysis of bus rapid transit actual operating conditions: the case of Hangzhou City, China</a>  | Operations |
| W ten Bosch, J Hoogeveen, M van Kooten Niekerk           | <a href="#">Optimizing bus line platform assignment across bus stations in Utrecht*</a>  | Operations |
| Z Aemmer, A Ranjbari, D MacKenzie                        | <a href="#">Measurement and classification of transit delays using GTFS-RT data</a>  | Operations |

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| H Chen, Y Sui, W Shang, R Sun, Z Chen, C Wang, C Han, Y Zhang, H Zhang | <a href="#">Towards renewable public transport: Mining the performance of electric buses using solar-radiation as an auxiliary power source</a>  | Operations        |
| S Oh, J Choi   | <a href="#">An optimization method to design a skip-stop pattern for renovating operation schemes in urban railways</a>  | Operations        |
| S Sajikumar, D Bijulal   | <a href="#">Zero bunching solution for a local public transport system with multiple-origins bus operation</a>   | Operations        |
| H Basma, M Haddad, C Mansour, M Nemer, P Stabat                        | <a href="#">Evaluation of the techno-economic performance of battery electric buses: Case study of a bus line in paris</a>   | Operations        |
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| S Pulugurtha, L Srirangam  | <a href="#">Pedestrian safety at intersections near light rail transit stations</a>  | Land use          |
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| L Moccia, D Allen, G Laporte, A Spinosa                                | <a href="#">Mode boundaries of automated metro and semi-rapid rail in urban transit</a>  | Economics         |
| F Herrera, S López   | <a href="#">Bus drivers in competition: A directed location approach</a>   | Economics         |
| A Proque, A Betarelli Junior, F Perobelli                              | <a href="#">Fuel tax, cross subsidy and transport: Assessing the effects on income and consumption distribution in Brazil</a>  | Economics         |
| A Kar, A Carrel, H Miller, H Le  | <a href="#">Public transit cuts during COVID-19 compound social vulnerability in 22 US cities*</a>   | Policy            |
| S Maharjan, N Tilahun, A Ermagun                                       | <a href="#">Spatial equity of modal access gap to multiple destination types across Chicago</a>  | Policy            |
| Q Gao, Y Yue, C Zhong, J Cao, W Tu, Q Li                               | <a href="#">Revealing transport inequality from an activity space perspective: A study based on human mobility data</a>  | Policy            |
| J Arranz, M Burguillo, J Rubio   | <a href="#">Are public transport policies influencing the transport behaviour of older people and economic equity? A case study of the Madrid Region*</a>                              | Policy            |
| E Diab, S Srikukenthiran, E Miller, K Habib                            | <a href="#">Effects of system configurations of automated fare collection on transit trip origin-destination estimation in Greater Toronto and Hamilton Area</a>                       | Technology        |
| Haoshan Ren, Zhenjun Ma, Alan Fong, Y Sun                              | <a href="#">Optimal deployment of distributed rooftop photovoltaic systems and batteries for achieving net-zero energy of electric bus transportation in high-density cities</a>       | Technology        |
| M Zhang, R Zahnow, J Zhou, J Corcoran                                  | <a href="#">Measuring and visualising 'familiar strangers' among transit riders: An exploratory study of Brisbane, Australia</a>   | Technology        |
| T McGrath, L Blades, J Early, A Harris                                 | <a href="#">UK battery electric bus operation: Examining battery degradation, carbon emissions and cost</a>  | Infrastructure    |
| W Hong, G Clifton, J Nelson  | <a href="#">Rail transport system vulnerability analysis and policy implementation: Past progress and future directions</a>  | Literature review |
| M Kim, G Cho   | <a href="#">Examining the causal relationship between bike-share and public transit in response to the COVID-19 pandemic</a>   | Mode              |
| M Gorji, S Shetab-Boushehri, M Akbarzadeh                              | <a href="#">Developing public transportation resilience against the epidemic through government tax policies: A game-theoretic approach</a>  | Organisation      |

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