



Scopus



Abstract
Author
keywords

Indexed
Back to results | 1 of 1
keywords

Sustainable Download Print Save to PDF Add to List Create bibliography

Development
Goals 2021 **Transportation Research Part D: Transport and Environment** • Open Access • Volume 113 • December 2022 • Article number 103499

SciVal
Topics

Document type

Metrics Article • Hybrid Gold Open Access • Green Open Access

Source type

Journal

Funding details

ISSN

13619209

DOI

10.1016/j.trd.2022.103499

View more

A transport justice approach to integrating vulnerable road users with automated vehicles

Martínez-Buevas, Laura^{a, b}; Rakotonirainy, Andry^a; Grant-Smith, Deanna^c; Oviedo-Trespalacios, Oscar^{a, d}

Save all to author list

^a Queensland University of Technology (QUT), Centre for Accident Research and Road Safety – Queensland (CARRS-Q), 130 Victoria Park Rd, Kelvin Grove, 4059, QLD, Australia

^b Universidad Tecnológica de Bolívar, Department of Industrial Engineering, Km 1 Via Turbaco, Cartagena, Colombia

^c Queensland University of Technology (QUT), Faculty of Business & Law, School of Management, 2 George St, Garden Point, 4000, QLD, Australia

^d Delft University of Technology, Faculty of Technology, Policy and Management, Section of Safety and Security Science, Jaffalaan 5, BX Delft, 2628, Netherlands

| | | | |
|---|--------------|-------------------|----------------------------------|
| 4 th percentile Citations in Scopus | 1,25 FWCI | 22 Views count | View all metrics |
|---|--------------|-------------------|----------------------------------|

Abstract

Connected and automated vehicles (CAVs) are expected to revolutionise transport worldwide and transform urban life. However, there are many unknowns concerning the impacts of these technologies in terms of sustainability, justice, and safety. It has been suggested that CAVs may exacerbate inequities and safety disparities concerning the interaction of vulnerable road users (VRUs) with motorised transport. This paper investigates the justice issues that CAVs policy needs to address concerning VRUs. Our approach to studying CAVs' capabilities and their potential perverse outcomes uses transport justice as an evaluative framework. The justice-related outcomes discussed include: traffic injuries, impact on sharing road responsibilities, loss of on-street space, access to technology, inclusion for

This export type is temporarily disabled

Try using another option from the Export menu. If no export alternatives are suitable, contact the Scopus Support Center.

Cited by documents

Emerging perspectives on transportation justice
Karner, A. , Bills, T. , Golub, A. (2023) *Transportation Research Part D: Transport and Environment*

Traffic Accidents with Autonomous Vehicles: Type of Collisions, Manoeuvres and Errors of Conventional Vehicles' Drivers
Petrovic, D. , Mijailović, R. , Pešić, D. (2020) *Transportation Research Procedia*

Equitable active transport

Dadashova, B. , Buehler, R. , Cherry, C. (2023) *Transportation Research Part D: Transport and Environment*

Eight Traffic Calming "Easy Pieces" to Shape the Everyday Pedestrian Realm

Cantisani, G. , Corazza, M.V. , Di Mascio, P. (2023) *Sustainability (Switzerland)*

View all 4 citing documents

Inform me when this document is cited in Scopus:

Set citation alert >

Related documents

Emerging perspectives on transportation justice

Karner, A. , Bills, T. , Golub, A. (2023) *Transportation Research Part D: Transport and Environment*

Traffic Accidents with Autonomous Vehicles: Type of Collisions, Manoeuvres and Errors of Conventional Vehicles' Drivers

Petrovic, D. , Mijailović, R. , Pešić, D. (2020) *Transportation Research Procedia*

Exploring the factors influencing acquisition and learning experiences of cars fitted with advanced driver assistance systems (ADAS)



Nandavar, S. , Kaye, S.-A. , Senserrick, T. (2023) *Transportation Research Part F: Traffic Psychology and Behaviour*

VRUs. © 2022 The Authors

Author keywords

Connected and automated vehicles; Equity; Responsible risk management; Road safety; Sustainability; Transport justice

Indexed keywords 


Sustainable Development Goals 2023  New 

SciVal Topics  

Topic name

Car Sharing; Bike; Autonomous Vehicles

Prominence percentile

99.806 

Metrics 

Funding details 

Find more related documents in Scopus based on:

Authors > Keywords >

References (110)

[View in search results format >](#)

All

[Export](#)  [Print](#)  [E-mail](#)  [Save to PDF](#) [Create bibliography](#)

- 1 Afghari, A.P., Papadimitriou, E., Li, X., Kaye, S.-A., Oviedo-Trespalacios, O.
How much should a pedestrian be fined for intentionally blocking a fully automated vehicle? A random parameters beta hurdle model with heterogeneity in the variance of the beta distribution

(2021) *Analytic Methods in Accident Research*, 32, art. no. 100186. Cited 7 times.

<http://www.journals.elsevier.com/analytic-methods-in-accident-research/>
doi: 10.1016/j.amar.2021.100186

[View at Publisher](#)

- 2 Amin, K., Skyving, M., Bonander, C., Krafft, M., Nilson, F.
Fall- and collision-related injuries among pedestrians in road traffic environment – A Swedish national register-based study

(2022) *Journal of Safety Research*, 81, pp. 153-165. Cited 4 times.

<http://www.sciencedirect.com/science/journal/00224375>
doi: 10.1016/j.jsr.2022.02.007

[View at Publisher](#)