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An open-data approach for quantifying the potential of taxi ridesharing

Benjamin Barann, Daniel Beverungen, Oliver Müller

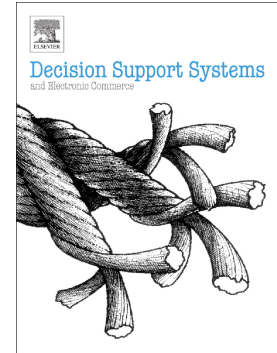
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Title:

An Open-Data Approach for Quantifying the Potential of Taxi Ridesharing

Authors:

- Benjamin Barann, European Research Center for Information Systems, University of Muenster, Leonardo-Campus 3, 48149, Muenster, Germany, benjamin.barann@ercis.uni-muenster.de
- Daniel Beverungen, Paderborn University, Warburger Str. 100, 33098, Paderborn, Germany, daniel.beverungen@uni-paderborn.de (corresponding author)
- Oliver Müller, IT University of Copenhagen, Rued Langgaards Vej 7, 2300 Copenhagen S, Denmark, oliver.mueller@itu.dk

Abstract:

Taxi ridesharing¹ (TRS) is an advanced form of urban transportation that matches separate ride requests with similar spatio-temporal characteristics to a jointly used taxi. As

¹ Taxi ridesharing (TRS), also known as shared taxi or collective taxi, is an advanced form of public transportation with flexible routing and scheduling that matches at least two separate ride requests with similar spatio-temporal characteristics in real-time to a jointly used taxi, driven by an employed driver without own destination. TRS, therefore, differs from private ridesharing, which refers to sharing of rides among private people. TRS is a more restricted dynamic dial-a-ride problem, which considers the requirements of both multiple passengers and the service provider. Because of the pooled simultaneous utilization of a taxi, TRS is collaborative consumption.

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