

Dynamic ride-sharing: A simulation study in metro Atlanta

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Why did we select this research?

Smartphone technology plays a crucial role in ride-sharing. This research deals with the problem of matching drivers and riders in this dynamic setting.

Key findings:

- Travel cost savings as the main driver for users to choose this method of transportation.
- Travel time savings to participants by providing access to high occupancy lanes.
- Dynamic ride-sharing may have potential for success in large U.S. metropolitan areas, with sustainable ride-share populations forming over time even with relatively small overall participation rates (when considering only home-based work trips).

Reference:

Agatz, N. A., Erera, A. L., Savelsbergh, M. W., & Wang, X. (2011). Dynamic ride-sharing: A simulation study in metro Atlanta. *Transportation Research Part B: Methodological*, 45(9), 1450-1464.

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