

Some Emerging Research Issues in Ride-sourcing Markets

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Abstract

Urban mobility has undergone drastic changes in recent years with the introduction of application-based taxi and car service e-hailing systems. These systems provide timely and convenient on-demand ride services to anyone, anywhere and anytime. E-hailing is now prevalent in the traditional taxi industry by effectively mitigating information asymmetry and uncertainty between customers and taxi drivers; E-hailing in the form of ride-sourcing can efficiently match a requesting customer with an affiliated private car driver nearby for on-demand ride services. This talk highlights some emerging research issues and latest developments in ride-sourcing markets, including demand forecasting; surge-pricing; matching, pricing and ride-pooling, joint optimization of matching time interval and matching radius; customers' maximum willingness to wait with sunk waiting time; optimal resource allocation with bundled options of choice; impact of ride-pooling on traffic congestion; competition and third-party platform-integration; Pareto-efficient market regulations; and analysis of human mobility and network property with big car trajectory data, etc..

Guest Speaker Bio



Prof. Hai Yang is currently a Chair Professor at The Hong Kong University of Science and Technology. He is internationally known as an active scholar in the field of transportation, with more than 250 papers published in SCI/SSCI indexed journals and a SCI H-index citation rate of 59. Most of his publications appeared in leading international journals, such as Transportation Research, Transportation Science and Operations Research.

Prof. Yang received a number of national and international awards, including Frank M. Masters Transportation Engineering Award, American Society of Civil Engineers (2020); National Natural Science Award bestowed by the State Council of PR China (2011). He was appointed as Chang Jiang Chair Professor of the Ministry of Education of PR China; Prof. Yang served as the Editor-in-Chief of Transportation Research Part B: Methodological from 2013 to 2018 and is now a distinguished editorial board member of this prestigious journal. More information can be found on his website at <http://cehyang.people.ust.hk/>.

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