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When - Friday, February 26, 2016, 3 — 4:30 PM  
Where - GWC 573 (PARKING)  
Food & Drinks will be provided

Abstract
Managed lanes are a type of congestion pricing that use occupancy and toll payment requirements to utilize roadway capacity more efficiently. The widespread adoption of managed lanes motivates to study the distribution of congestion pricing benefits across different socioeconomic groups and to develop advanced statistical models forecasting the managed lanes demand with respect to users attributes. This research is a case study of the conversion of a High Occupancy Vehicle (HOV) lane to a High Occupancy Toll (HOT) lane, implemented in Atlanta I-85 on 2011. To minimize the cost and maximize the size and complexity of the collected data, an innovative and cost-effective modeling framework for socioeconomic analysis of managed lanes has been developed with application of “big data” sources. This study enhances managed lanes’ travel demand models with respect to users’ socioeconomic characteristics and introduces a comprehensive modeling framework for the socioeconomic analysis of managed lanes. The methods developed through this research will inform future socioeconomic impact assessment studies in transportation and urban planning. These methods will also help better predict the interactions between users travel behavior and the transportation systems benefitting from “big data” sources.