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SPEAKER SERIES



JOHN PAUL SHEN



ABHINAV JAUHRI

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**Technologies for
Safe and Efficient
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**THE NATIONAL USDOT UNIVERSITY
TRANSPORTATION CENTER FOR SAFETY**

Carnegie Mellon University UNIVERSITY of PENNSYLVANIA



HUMAN MOBILITY MODELING BASED ON EXTENSIVE DATA FROM A RIDE SHARING SERVICE

ABHINAV JAUHRI and **JOHN PAUL SHEN**

Electrical and Computer Engineering
Carnegie Mellon University

Thursday, April 27, 2017, Noon-1 p.m.

Hamburg Hall 1206 Lunch will be provided.

This talk presents insights on modeling human mobility patterns by analyzing extensive data from a ride-sharing service. We introduce a space-time graph model to capture the spatial-temporal variations of ride requests across multiple cities around the globe. Such modeling can be used in what-if scenarios related to traffic mitigation, bounds on number of riders poolable, routing, and many others.

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