

Transportation Center Seminar.....

“Developing an Integrated Transportation Infrastructure Decision Support Platform: Focusing on Big and Open Data Visualization”

Meead Saberi

Lecturer (Assistant Professor)

Monash University



Tuesday– Jan. 27 , 2015

4:00 – 5:00 pm

Location:

Transportation Center
Chambers Hall
600 Foster, Evanston
Lower level

Abstract

This presentation introduces an integrated transportation infrastructure decision support platform which is being developed at Monash University, Australia. The vision is to develop a fully integrated system that integrates with real-time data, takes advantage of big data and various ICT technologies, and provides a fully connected modeling environment. The presentation focuses on interactive visualization of big and open data as a key component of the decision support platform. Several interactive data visualizations on population, socio-demographic, and safety characteristics of Melbourne will be presented.

BIO: Dr. Meead Saberi received his PhD degree (2013) in Transportation Systems Analysis and Planning from Northwestern University, USA. He also holds a Master's degree (2010) in Transportation Engineering from Portland State University, USA and a Bachelor's degree (2008) in Civil Engineering from Ferdowsi University of Mashhad, Iran. The focus of his PhD dissertation was on understanding the properties and dynamics of large-scale urban network traffic flow. Viewing urban travel demand from a macroscopic perspective, he demonstrated that urban transportation networks behave similar to many other aggregated dynamical physical systems. In 2013, he was appointed as a "Young Member" of the Traffic Flow Theory and Characteristics Committee (AHB45) of the Transportation Research Board of the USA National Academies. In 2014, he joined the Transport group at Monash University. He is leading the City Science Research Group focusing on improving scientific understanding of cities.