

Track B: Challenges & Opportunities for Emerging Tech

Monday, June 10, 2019 (Room: TBA)

Track Chair: Zhanmin Zhang, University of Texas at Austin



1:30 to 3:00 PM

Smart Cities - Insights from the U.S. DOT Smart City Challenge Finalists

Moderators: Zhanmin Zhang, *University of Texas at Austin* &
Jen Duthie, *City of Austin*

Panel

- **Jen Duthie**, Division Manager, *City of Austin*
- **Alexander Pazuchanics**, Assistant Director of Planning, Policy, and Permitting, *City of Pittsburgh*
- **Kevin Martin**, Smart City PDX / Tech Services Manager, *City of Portland, Oregon*

3:30 to 5:00 PM

Data Sensing & Analytics

Moderators: Jen Duthie, *City of Austin* & Guohui Zhang,
University of Hawaii at Manoa

- **Big Data and Project Prioritization: Using Trip Origins to Assess the Benefits of Congestion Reduction Investments**, Harun Rashid, *Northern Virginia Transportation Authority*; Cat Manzo, *Street Light Data*
- **Urban Transport Data – A Prerequisite But Missing Element in India's Emerging Smart Mobility Ecosystem**, Kushagra Sinha and Sanjay Gupta, *School of Planning and Architecture, New Delhi*
- **Using Big Data to Investigate Travelers Route Choice Due to Major Operation Change: Case Study Interstate 66 Inside the Beltway**, Amir Shahpar, *VDOT*; Cat Manzo, *Street Light Data*
- **Powell Bill Funding Program Visualization**, Majed Al-Ghandour, *NCDOT*

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Tuesday, June 11, 2019 (Room: TBA)

Track Chair: Zhanmin Zhang, University of Texas at Austin



1:30 to 3:00 PM

Mobility as a Service (MaaS)**Moderator:** Janille Smith-Colin, *Southern Methodist University*; Eric Shimizu, *DKS Associates*

- **Modeling the Adoption, Frequency, and Characteristics of Ride-Hailing Trips in Dallas, Texas**, Patricia Lavieri, *University of Melbourne*; Chandra Bhat, *The University of Texas at Austin*
- **Integrated Payments and Technology**, Jack Opiola, *50-50 Solution*
- **Increasing Transit Accessibility Using Shared Autonomous Vehicles**, Ting Zuo and Heng Wei, *University of Cincinnati*
- **MaaS and Advanced Analytics**, Edward Chavis and Andy Taylor, *Cubic*

3:30 to 5:00 PM

Electric Vehicles**Moderator:** Eva Lerner-Lam, *Palisades Consulting Group*

- **Denver RTD's EV Fleet Management Strategies**, Carly Macias, *Denver RTD*
- **Consumers' Perception Towards Plug-in Hybrid Electric Vehicle in Indian Megacities**, Reema Bera and Bhargab Maitra, *IIT Kharagpur*
- **Evaluating Fuel Tax Revenue Impacts of Electric Vehicle Adoption in Virginia Counties: Application of a Bivariate Linear Mixed Count Model**, T. Donna Chen, Wenjian Jia and Zhiqiu Jiang, *University of Virginia*; Rajesh Paleti, *Pennsylvania State University*
- **An Analysis of Attributes of Electric Vehicle Owners' Travel and Purchasing Behavior: The Case of Maryland**, Amirreza Nickkar, Hyeon-Shic Shin, and Andrew Farkas, *Morgan State University*
- **Promoting the Usage of Electric Vehicles through the Efficient Design of Charging Station Network**, Mohammad Miralinaghi, Sania Seilabi, and Samuel Labi, *Purdue University*

Track B: Challenges & Opportunities for Emerging Tech

Wednesday, June 12, 2019 (Room: TBA)

Track Chair: Zhanmin Zhang, University of Texas at Austin



9:15 to 10:45 AM

Artificial Intelligence (AI)

Moderator: Lili Du, *University of Florida* & Christian Braneon, *Hummingbird Firm*

- **How government is transforming with AI**, Lon Tierney, *Microsoft*
- **AI applications for Transportation Engineering – How to Define Research Projects**, Peter Huang, *FHWA*
- **Promises of Big Data in Transportation Planning Applications**, Cynthia Chen, *University of Washington*
- **AI in Transportation Cyber Physical Systems**, Daniel B. Work, *Vanderbilt University*
- **Microsoft Video Analytics for Traffic Safety**, Lon Tierney, *Microsoft*

11:00 to 12:30 PM

Unmanned Aerial System (UAS)

Moderator: Halil Ceylan, *Iowa State University*; David Hurwitz, *Oregon State University*

- **Unmanned Aerial Systems in Civil/Transportation Engineering: A Compressive Review**, Halil Ceylan, *Iowa State University*
- **Use of Drones by Oregon DOT and Other State Highway Agencies**, Chris Glantz, *Oregon DOT*
- **Driver Behavior due to Unmanned Aerial Vehicle Height: A Driver Simulator Study**, Alyssa Ryan, Cole Fitzpatrick, and Michael Knodler, *University of Massachusetts Amherst*
- **Exploring the Application of LiDAR for Flooded Roadway Management**, Seri Park, *Villanova University*
- **Validation of Traffic Simulation Model Output Using High-Resolution Video by Unmanned Aerial Vehicles**, Chennan Xue and Huaguo Zhou, *Auburn University*; Mohammad Jalayer, *Rowan University*