

## **Workshop A4 - Smart card data: new method and application for public transport**

Workshop chair:

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The incorporation of Automatic Fare Collection technology in public transport systems provides a fantastic opportunity for passive data harvesting. Even though the information recorded by payment devices is limited in terms of detail, its massiveness makes it valuable for different types of analysis. This workshop is devoted to discuss new methods and applications that use smart card data for different purposes, for example, moving from descriptive analysis towards modeling and prediction. Participants are invited to imagine and discuss new uses of this valuable source of data.

### Papers for oral presentation

- Eran Ben-Elia, Itzhak Benenson and Nadav Levy.  
Comparing mobility vs. accessibility in the Public Transport system of Tel Aviv with cellular and smartcard datamining
- Joe Yeun Touh Li, Takenori Iwamoto, Jan Dirk Schmoecker, Toshiyuki Nakamura and Nobuhiro Uno.  
Analyzing long-term travel behavior: a comparison of smart card data and graphical usage patterns
- Catalina Espinoza, Marcela Munizaga, Benjamin Bustos and Martin Trépanier.  
Assessing the public transport travel behaviour consistency from smart card data
- Shintaro Terabe and Hideki Yaginuma.  
WiFi sensing technologies for an affordable travel data collection from bus passengers

### Papers for poster presentation related to workshop

- Frédéric Roulland and John Handley.  
Insights of human-transportation system interactions inferred from operational data
- Zhi Li.  
Use of passive data streams to assess the accuracy of the adjustments to trip data from the Shenzhen HIS by a trip matrix estimation
- Yanina Alicia Giorgis.  
Quality Indicators and Public Transport Management: Permanent Passenger Survey
- Amirali Soltanpour, Mahmoud Mesbah and Meeghat Habibian.  
Evaluating Customer Satisfaction Using a Three-Factor Method
- Ashley Robbins and Howard Jennings. DC Circulator Rider Intercept Survey: Incorporating Market Segmentation in Survey Analysis to Guide Messaging Strategy