Publications:

Efficient Transport Simulation With Restricted Batch-Mode Active Learning
Publication: Research - peer-review › Journal article – Annual report year: 2018

Multi-Output Gaussian Processes for Crowdsourced Traffic Data Imputation
Publication: Research - peer-review › Journal article – Annual report year: 2018

Combining time-series and textual data for taxi demand prediction in event areas: a deep learning approach
Publication: Research - peer-review › Journal article – Annual report year: 2018

Deep Learning from Crowds
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

Event characteristics that disrupt transport system’s balance
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

Heteroscedastic Gaussian processes for uncertainty modeling in large-scale crowdsourced traffic data
Publication: Research - peer-review › Journal article – Annual report year: 2018

Overview of traffic incident duration analysis and prediction
Publication: Research - peer-review › Journal article – Annual report year: 2018

Social network analysis in future transportation systems: Contributions on observability, behaviour and structure
Publication: Research - peer-review › Editorial – Annual report year: 2018

A Bayesian Additive Model for Understanding Public Transport Usage in Special Events
Publication: Research - peer-review › Journal article – Annual report year: 2017

Demand pattern analysis of taxi trip data for anomalies detection and explanation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Enabling Bus Transit Service Quality Co-Monitoring Through Smartphone-Based Platform
Publication: Research - peer-review › Journal article – Annual report year: 2017

Enhancing Resilience to Disasters using Social Media
Publication: Research › Article in proceedings – Annual report year: 2018
Learning Supervised Topic Models for Classification and Regression from Crowds
Publication: Research - peer-review › Journal article – Annual report year: 2017

Probabilistic Modeling and Visualization for Bankruptcy Prediction
Publication: Research - peer-review › Journal article – Annual report year: 2017

Use of Taxi-Trip Data in Analysis of Demand Patterns for Detection and Explanation of Anomalies
Publication: Research - peer-review › Journal article – Annual report year: 2017

Mapping Social Media for Transportation Studies
Publication: Research - peer-review › Journal article – Annual report year: 2016

Uncertainty in Bus Arrival Time Predictions: Treating Heteroscedasticity With a Metamodel Approach
Publication: Research - peer-review › Journal article – Annual report year: 2016

Using internet search queries to predict human mobility in social events
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

DynaMIT2.0: architecture design and preliminary results on real-time data fusion for traffic prediction and crisis management
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Intelligent Transport Systems in the Smart City
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Projects:

Autonomous Bus Demand Modeling from Big Data
Project: PhD

Traffic controlled by Air Quality - Organic City
Project

Multi-model bus Arrival Predictinwith Intelligent Handling of Uncertainties
Project: PhD

ATIS and modal shift: the role and the effectiveness of information provision and perception
Project: PhD

Machine Learning and Mobility
Project: PhD

Intelligent Composition of Buffer Times in Railway Scheduling
Project: PhD

Activities:

Projects for Mobility in the Smart City
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.