Research outputs:

Multi-Output Gaussian Processes for Crowdsourced Traffic Data Imputation
Research output: Research - peer-review › Journal article – Annual report year: 2019

Multi-output bus travel time prediction with convolutional LSTM neural network
Research output: Research - peer-review › Journal article – Annual report year: 2019

Combining time-series and textual data for taxi demand prediction in event areas: a deep learning approach
Research output: Research - peer-review › Journal article – Annual report year: 2019

Comparison of Four Types of Artificial Neural Network and a Multinomial Logit Model for Travel Mode Choice Modeling
Research output: Research - peer-review › Journal article – Annual report year: 2019

Participating in environmental loyalty program with a real-time multimodal travel app: User needs, environmental and privacy motivators
Research output: Research - peer-review › Journal article – Annual report year: 2019

Research output: Research - peer-review › Journal article – Annual report year: 2019

Active Learning for Input Space Exploration in Traffic Simulators
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

Activity Recognition for a Smartphone and Web-based Human Mobility Sensing System
Research output: Research - peer-review › Journal article – Annual report year: 2018

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

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

Heteroscedastic Gaussian processes for uncertainty modeling in large-scale crowdsourced traffic data
Research output: Research - peer-review › Journal article – Annual report year: 2018
Just-in-Time Traffic Model Adaptation to Non-Recurrent Incidents
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2018

Opening Up the Conversation: Topic Modeling for Automated Text Analysis in Travel Surveys
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

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

Population Synthesis Meets Deep Generative Modelling
Research output: Research - peer-review › Paper – Annual report year: 2018

Real-Time Taxi Demand Prediction using data from the web
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

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

Towards Dynamic Bayesian Networks: State Augmentation for Online Calibration of DTA Systems
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

Traffic Prediction with Convolutional Long Short-Term Memory
Research output: Research - peer-review › Poster – Annual report year: 2018

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

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

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

Enhancing Resilience to Disasters using Social Media
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

Event characteristics that disrupt transport system’s balance
Research output: Research - peer-review › Paper – Annual report year: 2018

Learning Supervised Topic Models for Classification and Regression from Crowds
Research output: Research - peer-review › Journal article – Annual report year: 2017

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

Mapping Social Media for Transportation Studies
Research output: Research - peer-review › Journal article – Annual report year: 2016
Uncertainty in Bus Arrival Time Predictions: Treating Heteroscedasticity With a Metamodel Approach
Research output: Research - peer-review › Journal article – Annual report year: 2016

Using internet search queries to predict human mobility in social events
Research output: 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
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015

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

Projects:

Solution methods for predictive optimization
Project: PhD

Mining User Behaviour from Smartphone-data
Project: PhD

Traffic controlled by Air Quality - Organic City
Project: Research

Autonomous Bus Demand Modeling from Big Data
Project: PhD

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

Machine Learning and Mobility
Project: PhD

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