Francisco Camara Pereira - DTU Orbit (14/05/2019)

Francisco Camara Pereira
Professor
Department of Technology, Management and Economics

Transport

Machine Learning

Postal address:
Bygningstorvet
116, 123A
2800
Kgs. Lyngby
Denmark
Email: camara@dtu.dk
Phone: 45251496

Research outputs:

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

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

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

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

Factors driving the adoption of mobility-management travel app: a bayesian structural equation modelling analysis
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2019 › Research › peer-review

Online Framework for Demand-Responsive Stochastic Route Optimization
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

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

Predicting taxi demand hotspots using automated Internet Search Queries
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

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

Active Learning for Input Space Exploration in Traffic Simulators
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review

Activity Recognition for a Smartphone and Web-based Human Mobility Sensing System
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review
Deep Learning from Crowds
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review

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

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

Just-in-Time Traffic Model Adaptation to Non-Recurrent Incidents
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2018 › Research › peer-review

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

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

Population Synthesis Meets Deep Generative Modelling
Research output: Contribution to conference › Article in proceedings – Annual report year: 2018 › Research › peer-review

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

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

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

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

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

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

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

Enhancing Resilience to Disasters using Social Media
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review
Event characteristics that disrupt transport system's balance
Research output: Contribution to conference › Paper – Annual report year: 2018 › Research › peer-review

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

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

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

Mapping Social Media for Transportation Studies
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

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

Using internet search queries to predict human mobility in social events
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

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

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

Projects:

Machine Learning for Transportation Demand
Project: PhD

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.