

Past Master Thesis Topics

- Anomaly Detection on Online Simulation Platforms: The case of Power TAC
- Managing risk for volatile electricity producers
- Multi-Agent Reinforcement Learning in Continuous Action Spaces - Application to Electric Vehicle Charging in Smart Grids
- Predicting dockless bikesharing demand across time and space using machine learning
- Observation-based Reinforcement Learning Within Competitive Simulations
- Identification of E-Scooter Rental Brands' Success Determinants through the Exploitation of E-Scooter Usage Data
- Predicting Price Regimes in German Short-term Electricity Markets
- Uncovering Usage and Mode Choice Preferences of Free-Floating Vehicle Sharing Users: An Empirical and Experimental Approach
- Managing risk for volatile electricity producers
- Autonomous Portfolio Management with Reinforcement Learning in Smart Electricity Markets
- Last-Mile Delivery with Shared Autonomous Vehicles - A mixed rental-delivery strategy for fleet operators
- A Novel Vehicle Repositioning Strategy for Free-Floating Vehicle Sharing Systems with Heterogeneous Fleets using Reinforcement Learning
- Dynamic Routes for Demand-Driven Public Transit Networks using Reinforcement Learning
- Evaluating the impact of strategic decisions on a multi-mode shared autonomous electric fleet using agent-based modeling
- Supporting Cities in Decision-making with Shared Mobility Data
- Platform competition for the worse? The influence of electric scooters on bike sharing usage
- Open Blockchain-based Local Energy Market Simulation Platform
- Reinforcement Learning Portfolio Optimization of Electric Vehicle Virtual Power Plants
- Improving spatio-temporal Demand Predictions for Free Floating Car Sharing Services - A Machine Learning Approach with Novel Features
- Predicting Rental Length and Endpoints in Free-Floating Vehicle Sharing Systems - An Analysis using Geotagged Rental Data"
- An auction-based mechanism for road pricing in autonomous urban transport systems
- A simulation-driven approach to optimize EV charging clusters - A more sustainable parking facility