

Siavash Saki

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Research focus: urban mobility, parking search, traffic modeling, machine learning



Education

Frankfurt University of Applied Sciences, Ph.D. in Mobility and Logistics	2020 – 2025
Beuth University, M.Eng. in Mechanical Engineering, Berlin	2017 – 2019
Karlsruher Institut für Technologie, DSH German Study, Karlsruhe	2015 – 2016
TU Khajenasir, B.Sc. in Mechanical Engineering, Tehran	2009 – 2014

Experience

Project Lead, InnoTrax – Urban Tech Startup, Berlin, www.innotrax.io	Aug 2024 – Present
University Lecturer, Frankfurt University of Applied Sciences, Frankfurt	Oct 2021 – Sep 2023
Research Assistant, Research Lab for Urban Transport, FRA-UAS, Frankfurt	Aug 2020 – Jul 2024
Data Scientist, infinIT Services GmbH, Berlin	Apr 2019 – Mar 2020
Research and Development Engineer, Greateyes GmbH, Berlin	Mar 2018 – Jan 2019

Awards

Publication Award, 2021/22, Frankfurt University of Applied Sciences
For the article on the effects of COVID-19 on mobility, published in *Straßenverkehrstechnik*.

Open Source Contributions

- **tesspy**: A Python package for geographical tessellation. Published on Conda Forge.
<https://anaconda.org/conda-forge/tesspy>
- **Parking Search Prediction Model**: An open-source deep learning model that identifies parking search in vehicle GPS traces. <https://github.com/ReLUT/parking-search-prediction>

Top Publications (Google Scholar Link)

Artificial Intelligence, Machine Learning and Deep Learning in Advanced Transportation Systems, A Review. Saki, S., & Soori, M. <i>Multimodal Transportation</i> , 100242.	2025
Understanding Traffic Patterns using Clustered Semantic Trajectories and Local Geographic Units. Hamann, J., Hagen, T., & Saki, S. <i>Transportation Research Procedia</i> , 82, 2911-2930..	2025
Cruising for parking again: Measuring the ground truth and using survival analysis to reveal the determinants of the duration, S Saki, T Hagen, <i>Transportation Research Part A: Policy and Practice</i> , 183, 104045	2024
Parking search identification in vehicle GPS traces, S Saki, T Hagen, <i>Journal of Urban Mobility</i> , 6, 100083	2024
What drives drivers to start cruising for parking? Modeling the start of the search process, S Saki, T Hagen, <i>Transportation Research Part B: Methodological</i> , 188, 103058	2024
start2park-Parksuche erfassen, verstehen und prognostizieren: Endergebnisse-01.12.2023, T Hagen, S Saki	2024
Modeling of parking violations using Zero-Inflated Negative Binomial regression: a case study for Berlin, T Hagen, N Reinfeld, S Saki, <i>Transportation</i>	2023

Research Record, 2677 (6), 498-512

A practical guide to an open-source map-matching approach for big GPS data , S Saki, T Hagen, <i>SN Computer Science</i> , 3 (5), 415	2022
Discretization of urban areas using POI-based tessellation , T Hagen, J Hamann, S Saki, <i>Working Papers</i>	2022
TessPy: a python package for geographical tessellation , S Saki, J Hamann, T Hagen, <i>Journal of Open Source Software</i> , 7 (76), 4620	2022
Parkverstöße: Eine Gefahr für Radfahrer* innen?-Case Study für Berlin [Poster] , T Hagen, N Reinfeld, S Saki	2022
Parksuchverkehr-ein über-oder unterschätztes Phänomen? Das Forschungsprojekt start2park analysiert den Parksuchverkehr und entwickelt Lösungsansätze , T Hagen, S Saki, S Scheel-Kopeinig, <i>Internationales Verkehrswesen</i> , 73 (4)	2021
Effekte der COVID-19-Pandemie auf Mobilität und Verkehrsmittelwahl , T Hagen, M Sunder, E Lerch, S Saki, <i>Straßenverkehrstechnik</i> , 65 (1)	2021
start2park-Determining, Explaining and Predicting Cruising for Parking , T Hagen, S Saki, S Scheel-Kopeinig, <i>Frankfurt University of Applied Sciences</i>	2021
Verkehrswende trotz Pandemie? Mobilität und Logistik während und nach der Corona-Krise: Analysen für Hessen und Deutschland , T Hagen, M Sunder, E Lerch, S Saki, <i>Mobilität und Logistik Während und nach der Corona-Krise</i>	2020
Ganglinien als Grundlage für eine nachhaltige Parkraumplanung: Tabellenband , T Hagen, PK Schäfer, S Scheel-Kopeinig, S Saki, T Nguyen, KP Wenz	2020

Selected Conference Presentations

Parking search identification in vehicle GPS traces , S Saki, <i>International Conference on Travel Behaviour Research (IATBR)</i> , Vienna, Austria	2024
Start2park – Abschlussveranstaltung , T Hagen & S Saki, <i>mFUND Final Conference</i> , BMDV, Berlin, Germany	2023
Parking Search Prediction Model , S Saki, <i>European Transport Conference (ETC)</i> , Association for European Transport, Milan, Italy	2023
Analyzing the determinants of cruising for parking: When does the parking search begin? , S Saki, <i>16th International Conference on Travel Behaviour Research (IATBR)</i> , Santiago, Chile	2022
Start2park - Analyzing the determinants of cruising for parking: When does the parking search begin? , S Saki, <i>European Transport Conference (ETC)</i> , Association for European Transport, Milan, Italy	2022
Analysis of factors influencing parking search , S Saki & Z Winkler, <i>Last Mile City Logistics Conference</i> , Berlin, Germany	2022
Clustering Urban Areas Based on GPS Trajectories and Geospatial Data , S Saki, <i>11th Annual International Conference on Urban Studies & Planning</i> , Athens Institute for Education and Research (ATINER), Athens, Greece	2021
start2park - Determining, Explaining & Predicting Cruising for Parking , S Saki, <i>European Transport Conference (ETC)</i> , Association for European Transport	2021
Smarte Nutzung von Trackingdaten zur Entwicklung eines Erklärungs- und Prognosemodells für die Parksuchdauer , S Saki, <i>mFUND-Fachaustausch</i> , BMVI, Berlin, Germany	2021
start2park – Determining, Explaining & Predicting Cruising for Parking , T Hagen & S Saki, <i>mFUND Conference</i> , BMVI, Berlin, Germany	2021
Clustering Urban Mobility Flows Based on GPS Data and Geographic Information (ClusterMobil) , S Saki, <i>UIREKA-Conference, The Urban Research and Education Knowledge Alliance</i> , Online	2020