

TIAGO TAMAGUSKO

PERSONAL DATA

PHONE: (+351) 914.557.970
EMAIL: tamagusko@gmail.com
GITHUB: github.com/tamagusko
LINKEDIN: linkedin.com/in/tamagusko
ORCID ID: 0000-0003-0502-6472

RESEARCH INTERESTS

My research focuses on artificial intelligence applications in the transportation field. I am especially interested in machine learning algorithms, asphalt pavements, intelligent transportation systems, and embedded systems.

PORTFOLIO

[Viseu Airport Study](#) Data analysis to improve the runway at Viseu Airport.

EXPERIENCE

since 2020	Data Scientist/Volunteer at Junior Enterprise for Science and Technology (JEST), coordinator of the Technology and Innovation team. Coimbra, Portugal
2013–2018	Civil Engineer/Researcher at Transportation and Logistics Laboratory (LabTrans/UFSC), research related to Road Infrastructure, Road Safety, Intelligent Transportation System, and High Speed Weigh-in-motion. Florianópolis, Brazil
2009–2013	Intern at Transportation and Logistics Laboratory (LabTrans/UFSC), research related to Brazilian rail and road networks. Support in the development of management software for the National Transport Infrastructure Department. Florianópolis, Brazil
2004–2005	Telecommunications Technician at Alcatel (Alcatel-Lucent Enterprise), Development of a platform in PHP for access control and monitoring access keys for the company's infrastructures. São José, Brazil

EDUCATION

since 2020	PH.D. CANDIDATE, Transport Systems University of Coimbra, Portugal
Thesis	Artificial Intelligence applied to Transport Infrastructure Management
2018–2020	M.Sc., Urban Mobility Management University of Coimbra, Portugal
Dissertation	Airport Pavement Design
2008–2013	B.Sc., Civil Engineering Federal University of Santa Catarina, Brazil
Final Project	Cost of Lack of Standardization of Railway Gauges in Brazil (in Portuguese)
2002–2004	TECH., Computer Network and Telecommunications Federal Institute of Santa Catarina, Brazil

AWARDS AND SCHOLARSHIPS

SEPT. 2020 FCT PhD Research Scholarship (2020-2024)

PUBLICATIONS

Hasselwander, M.; **Tamagusko, T.**; Bigotte, J.; Ferreira, A.; Mejia, A.; Ferranti, E. (2021). *Building Back Better: The COVID-19 Pandemic and Transport Policy Implications for a Developing Megacity*. Sustainable Cities and Society 69: 102864-102864. Elsevier. DOI: [10.1016/j.scs.2021.102864](https://doi.org/10.1016/j.scs.2021.102864)

Tamagusko, T. and Ferreira, A. (2020). *Data-Driven Approach to Understand the Mobility Patterns of the Portuguese Population during the COVID-19 Pandemic*. Sustainability, 12, 9775. MDPI. DOI: [10.3390/su12229775](https://doi.org/10.3390/su12229775)

Tamagusko, T. and Ferreira, A. (2020). *Software Tools for Airport Pavement Design*. In: Rocha Á., Adeli H., Reis L., Costanzo S., Orovic I., Moreira F. (eds) Trends and Innovations in Information Systems and Technologies. WorldCIST 2020. Advances in Intelligent Systems and Computing, vol 1160. Springer. DOI: [10.1007/978-3-030-45691-7_7](https://doi.org/10.1007/978-3-030-45691-7_7)

Guerson, L. P.; Gevaerd, B. M.; Otto, G. G.; **Tamagusko, T.**; Valente, A. M. (2016). *Test Site for Evaluation of High-Speed WIM and ITS Solutions in Brazilian Conditions*. In: ICWIM7 Proceedings, 2016. Proceedings: [icwim7_bookproceedings](https://icwim7_bookproceedings.com)

PROJECTS

2020	PORTUGAL EM CHAMAS, JEST, Portugal. (Data Analyst) Project to replicate the impact of fires in Portugal over the years. github.com/tamagusko/portugal-em-chamas
Field	Data Analysis
2018-2019	APPLICATION OF ML FOR THE OPORTO METRO, Coimbra University, Portugal. (Student) Use of ML (K-Means & Decision Tree) to predict OPorto Metro validations;
Field	Artificial Intelligence
2018	TRAFFIC SIMULATION, Coimbra University, Portugal. (Student) Traffic simulation (PTV-Visum) for the southern part of the city Coimbra.
Field	Traffic Simulation
2013-2015	DEVELOPMENT OF NEW TECHNOLOGIES FOR HS-WIM, LabTrans, Brazil. (Researcher) Development of a new High-Speed-Weigh-In-Motion (HS-WIM) model. PIAF Project (LabTrans)
Field	Transport Infrastructure

COURSES

2021	MASTERING BIG DATA WITH FREE PLATFORMS, USP USP / Online Duration: 32h
Field	Big Data
2020	MACHINE LEARNING, Coursera Stanford / Online Duration: 11 weeks
Field	Artificial Intelligence
2014	HDM4 SOFTWARE OPERATION, FAPEU Florianópolis, Brazil Duration: 40h
Field	Transport Infrastructure

Updated: January 12, 2022