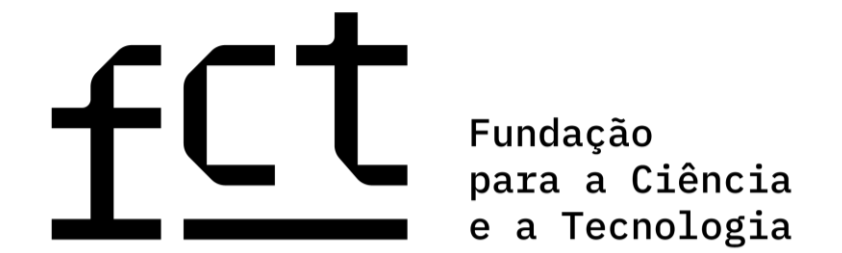


COGNITION

Driver's Behavior Cognition Based on Mobile Phone Sensors



UIDB/05567/2020/01 (Trabalho financiado por fundos nacionais através da FCT – Fundação para a Ciência e a Tecnologia, I.P., no âmbito do projeto UIDB/05567/2020)

Objectives

Development of an application which collects data from mobile phone sensors, processes it and alerts the driver in real time about potentially dangerous situations, helping to prevent possible car accidents and correct bad driving habits. Collected data can also be used at a later stage through data science technics to further profile the driver.

Team

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Partners

- Instituto Politécnico de Leiria
- National Technical University of Ukraine - Igor Sikorsky Kyiv Polytechnic Institute

Results

- Development of a mobile application for data collecting
- Development of algorithms for processing and obtaining the information about vehicle dynamics
- Development of algorithms for driver's behavior cognition detecting risky events
- Implementation of driver's assistant system
- Development of algorithms to profile and classify the driver

