

# Hosting Offer for MSCA-IF-2020 at Telematics Research Group (University of Coruña, Spain)

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## HOSTING DESCRIPTION:

### 1. Research / Project Description

The research project is focused on the development of **early detection machine and deep learning models**. Traditionally, machine learning and deep learning are mainly concerned with the classification of instances based on multiple features. However, in many problems one instance can present multiple features that evolve through time (e.g. a network device and its network flows). In this case, the objective is to correctly classify the instance (e.g. network device attacked) but requiring as little time as possible (e.g. processing as few network flows as possible). In this sense, in this research project we aim at exploring specific learning models that take into consideration the time in the optimization of the objective function and its application to different environments.

### 2. Research areas (as established in MSCA):

Information Science and Engineering (ENG)

### 3. Brief description of the Centre / Research Group:

The Telematics research group belongs to the Research Centre on Information and Communication Technologies (CITIC), a Technology Centre promoted by the University of A Coruña (UDC). CITIC is one of the four research centres of the University of A Coruña, whose main objective is to promote the advancement and excellence in research, development and innovation in Information and Communications Technology (ICT) and to promote the transfer of knowledge and results to the society. The CITIC is composed by more than 200 researchers who in the last year (2019) raised more than 4,5 million € in competitive funds and academy-industry agreements, being a meeting point between the UDC research groups and ICT companies of the north of Spain. The scientific production of the Centre is highlighted, with more than 141 articles published in JCR journals, and 16 doctoral thesis defended, among others.

#### 4. Applications (Documents to be submitted and deadline)

For the evaluation of candidates, please submit electronically to Fidel Cacheda ([fidel.cacheda@udc.es](mailto:fidel.cacheda@udc.es), and CC to [otri.cienciaexcelente@udc.es](mailto:otri.cienciaexcelente@udc.es)): **before 15<sup>th</sup> June:**

- CV describing your academic achievements and your research expertise, focusing on those aspects relevant in the context of this project.
- Five most relevant publications, in the context of this project.

**Institution:** University of A Coruña

**Centre:** CITIC Research Centre

**Address:** *Campus de Elviña s/n – 15008 – A Coruna (Spain)*