Activity Overview - Worldsensing Scholarship

Company Description

Worldsensing is a widely recognized global IoT pioneer.

We provide customers with the tools to make the right operational decisions based on real-time intelligence. Our insights enable operators to understand the performance of distributed infrastructure, make predictions, improve efficiency and prevent disasters.

We use wireless sensor technology and real-time software solutions to provide operational intelligence to operators and decision makers. This is what we call Connected Operational Intelligence.

We work with customers in more than 50 countries across 5 continents, reinventing the world we will live and work in tomorrow.

Description of activity

We offer two research internship opportunities in the field of IoT & Artificial Intelligence. Targeting analysis for sensor data and predictive models for Smart Cities.

Examples of initiatives that Worldsensing is currently working on are:

- Real Time Evaluator deployment
- Parking prediction for Smart Cities
- Traffic forecast
- Incidence automatic classification
- Parking sensor noise filtering
- Incidence ranking prioritization
Two projects are currently available:

**Time series forecasting**

Sensors around the city produce a constant stream of data points that measure the status of roads, parkings and infrastructures. In order to anticipate interventions and detect misbehaviours it is paramount to forecast these signals as accurately as possible. The student will research for this project the current forecasting techniques, their benchmarks ([https://www.m4.unic.ac.cy/](https://www.m4.unic.ac.cy/)) and research new approaches to end up proposing reliable techniques to be implemented.

**Duration:** 4 months  
**Number of students:** 1

**Incidence classification**

Incidents may happen due to broken lamp poles, car crashes or even landslides. In order to prioritise them and dispatch the necessary resources it is necessary to classify them and rank their importance. For this project, the student will work with data related to different kinds of incidents testing state of the art classification techniques, clustering algorithms and ranking problems to propose a solution do deal with them effectively.

**Duration:** 4 months  
**Number of students:** 1

**Financial Contribution**

Worldsensing can contribute financially and help students depending on the needs and particularities of each project and situation. Let’s discuss if you are interested.