

# Spiros' CV | CV

## Spyridon Aniceto Katsampiris Salgado

Scientific Researcher, Laboratory of Distributed Systems and Telematics, University of Patras, Patras, Greece.

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### Summary

Spyridon Aniceto Katsampiris Salgado was born in 1996. He entered the Department of Computer Engineering and Informatics at University of Patras in 2014 and now he is an postgraduate student in the Master Human-Computer Interaction. He has obtained the Michigan Certificate of Proficiency in English. He joined Research Unit 6 in 2019 and he is interested in machine learning, Internet of the Things and LoRA networks.

### Research interests

Machine Learning, Internet of Things (IoT), Low Power Wide Area Networks (LPWAN)

### Education

2014 - 2019 MEng. **Computer Engineering and Informatics, University of Patras, Patras, Greece**

2019 - 2020 Msc. **Human Computer Interaction, University of Patras, Patras, Greece**

### Publications

Bouras C., Gkamas A., Katsampiris Salgado S.A., Kokkinos V. (2020) Comparison of LoRa Simulation Environments. In: Barolli L., Hellinckx P., Enokido T. (eds) Advances on Broad-Band Wireless Computing, Communication and Applications. BWCCA 2019. Lecture Notes in Networks and Systems, vol 97. Springer, Cham

## Participation on Projects

**2018-present WeSAR:** The aim of the project is to design and develop a system for identifying and rescuing individuals, especially those belonging to population groups with a particularly high probability of being lost. The central part of the system is a modular “wearable (portable)” device, while the positioning and status algorithms of the person carrying the device will play an important role in its effectiveness.

### *Responsibilities:*

- Conference paper publishing on LoRa simulators.
- Development and maintenance of the project’s site using Wordpress, according to the project’s needs.
- Design and development of mechanism for wearables in LoRa networks, using C for embedded systems, and simulations on Omnet++ (C++/ NED).

**INHERIT:** “Sustainable Tourism Strategies to Conserve and Valorise the Mediterranean Coastal and Maritime Natural Heritage (INHERIT)” of the program Interreg MED.

- participation in the report for remoted islands in the Mediterranean.
- participation in the creation of methodology for the Inheritura regions.

**GuideMe:** This proposal facilitates people with special characteristics to move around in internal spaces with increased orientation demands. GuideMe is a platform that provides guidance and security for these people when moving outside their homes. This solution is built upon a discrete mobile device, which is able to detect movement in interior spaces with an accuracy of 10 cm, using UWB technology. The device can also pinpoint its direction, accept voice commands and provide vocal instructions. It is able to detect falls and provide Updates. Its function is based on the mobile device’s cooperation with an app that runs on the user’s cellphone and a server.

- Design and development of Localization algorithms in UWB.

## Occupation

**2016-2017 IT Member,** EESTEC, Lc Patras, Greece

**2017-2018 Lab Assistant on the course “Databases”,** Department of Computer Engineering and Informatics, University of Patras, Patras, Greece

**2018-present Laboratory of Distributed Systems and Telematics,** Department of Computer Engineering and Informatics, Building B, University of Patras, Patras, Greece

- IT administrator member: Management of the servers of the Lab

-Research on LPWAN (Low Power Wide Area Networks), especially on LoRa and NB-IoT. Main purpose is the study of algorithms for achieving energy efficiency on portable battery-constrained devices, using simulations such as OM-NeT++.

## **Skills**

**Programming Languages :** Java, C/C++, Matlab, HTML, PHP, Javascript, XML

**Databases :** RDMS (MySQL)

**Foreign Languages :** English, Greek, Spanish