



ITN-5VC

Integrated Telematics for Next Generation 5G Vehicular Communications

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Year 4 Project Popular-Science Workshop

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Executive summary

The dissemination of scientific results plays a vital role in societal development because it allows the public to understand scientific advances and how they may impact their lives. Additionally, it helps to build trust in science and researchers and encourages young people to pursue a career in science. One of the goals of this project is to help students acquire abilities that will enable them to become excellent communicators in addition to researchers. For that reason, the project hosts annual popular science workshops. This document provides details of the popular science workshop corresponding to the fourth year of the project.

Disclaimer: This work has been performed in the framework of the H2020 project ITN-5VC co-funded by the EU. This information reflects the consortium's view, but the consortium is not liable for any use that may be made of any of the information contained therein. This deliverable has been submitted to the EU commission, but it has not been reviewed and it has not been accepted by the EU commission yet.

1 Introduction

The ITN-5VC project is expected to develop a series of dissemination and outreach activities that are scheduled in advance. The popular science workshops are an example; they aim to add exposure to the research carried out during the project. These activities increase awareness about the obtained results and represent an opportunity for the ESRs to receive valuable feedback.

The ESRs had the opportunity to participate in the IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) held in Valencia and to present their recent work to the attending audience. In the case of ESR 8, she presented her paper titled "Achieving Latency-Aware V2V Communication With Distributed Antenna Systems" in which she demonstrated the benefits of distributed antenna systems for vehicular communications, comparing it with the more traditional single-antenna setup. The exposition was part of the Low-Latency Communications session, and she was able to discuss her results with her peers and receive some recommendations about how to continue working in this direction. On the other hand, ESR 11 presented a poster titled "Sensing Parameters Estimation Methods Comparison for ISAC-capable Vehicular Networks", in which he compared methods such as periodogram, Multiple Signal Classification (MUSIC), Estimation of Signal Parameters via Rotational Invariant Techniques (ESPRIT) and Orthogonal Matching Pursuit (OMP) to estimate the distance and velocity of a target from a sensing vehicle using Orthogonal Frequency Division Multiplexing (OFDM). During the poster sessions, he had the opportunity to exchange with several colleagues who took an interest in the presented work and presented helpful suggestions. A potential collaboration for a future journal paper was also discussed with one of the attendees. During the event, both ESRs were able to attend additional presentations, keynotes and demos and network with distinguished professionals from academia and the industry, which contributed to increasing the dissemination and impact of the ITN-5VC project.

2 Year 4 Project popular-science workshop

Brief overview

- Host: UPV
- Venue: Palacio de Congresos, Valencia
- Time: September 2024

Photos



