

## **SCIENTIFIC PAPERS**

5 / 5G-Enabled AGVS for industrial and logistics environments

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## **ANNUAL RESEARCH REPORT 2020/2021**

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## THESES SUMMARY

**59** / Design of optical fiber sensors and interrogation schemes Author: Demetrio Sartiano

**61 /** Integrated spectroscopic sensor fabricated in a novel Si3N4 platform *Author: Gloria Micó Cabanes* 

**62 /** Design of communication systems based on broadband sources for fiber and free space optical links

Author: Imene Sekkiou

**64 /** Reconfigurable reflective arrayed waveguide grating on silicon nitride *Author: Juan Fernández Vicente* 

**65** / Improving DASH video streaming with variable bitrate encoding through the Look Ahead algorithm and playback coordination mechanisms, and proposal of new metrics for QoE assessment

Author: Román Belda Ortega

**67 /** Advanced Techniques for the Design and Optimization of Multi-Band and Reconfigurable Microwave Waveguide Filters

Author: Juan Carlos Melgarejo Lermas

**68 /** Development of New Tunable Passive Microwave Components in Waveguide Technology

Author: Javier Ossorio García