Research outputs:

Analytical and Experimental Performance Evaluation of Antenna Misalignment in Ka-band Wireless Links
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Novel Hybrid Radio-Over-Fiber Transmitter for Generation of Flexible Combination of WDM-ROF/WDM Channels
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2019 › Research › peer-review

Latency and bit-error-rate evaluation for radio-over-ethernet in optical fiber front-haul networks
Sayadi, M., Rodríguez, S., Olmos, J. J. V. & Tafur Monroy, I., 1 Jan 2018, In : Optical Switching and Networking. 27, p. 88-92
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Active HEMT based Envelope Detector for Ultra-Wideband Wireless Communication Systems
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review

Ultra-wideband balanced schottky envelope detector for data communication with high bitrate to carrier frequency ratio
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Available Resources for Reconfigurable Systems in 5G Networks
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Beam steering application for W-band data links with moving targets in 5G wireless networks
Morales Vicente, A., Rodríguez Páez, J. S., Gallardo, O., Vegas Olmos, J. J. & Tafur Monroy, I., 2017, In : Journal of Communications and Information Networks. 2, 2, p. 91-100
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Dynamic optical fiber delivery of Ka-band packet transmissions for wireless access networks
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Optically controlled reconfigurable antenna for 5G future broadband cellular communication networks
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review
Performance analysis for W-band antenna alignment using accurate mechanical beam steering
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Photonics-assisted wireless link based on mm-wave reconfigurable antennas
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Real-time 2.5 Gbit/s spatial circuit switching on W-band wireless links
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Real-time Measurements of an Optical Reconfigurable Radio Access Unit for 5G Wireless Access Networks
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Reconfigurable radio access unit to dynamically distribute W-band signals in 5G wireless access networks
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Short Range Inter-Datacenter Transmission with Carrier Delivery and Remote Modulation for 112 Gb/s PM-QPSK Signals
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

225m Outdoor W-Band Radio-over-Fiber Link Using an Optical SFP+ Module
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Additive manufacturing of Ka-band antennas for wireless communications
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Evaluation and Performance Analysis of 3D Printing Technique for Ka-Band Antenna Production
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

On the capacity of radio-over-fiber links at the W-band
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review
Optical Components for Reconfigurable Photonic Networks and Mobile Systems
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2016 › Research › peer-review

Outdoor W-Band Hybrid Photonic Wireless Link Based on an Optical SFP+ Module
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Performance Comparison of 10G-Class Partial Response Multilevel Modulation Formats in Access Network Scenarios with Limited Electronic Bandwidth
Research output: Contribution to conference › Poster – Annual report year: 2017 › Research › peer-review

Performance evaluation of multilevel modulation formats using partial response for capacity upgrade in access network with limited electronic bandwidth
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Photonic Downconversion and Optically Controlled Reconfigurable Antennas in mm-waves Wireless Networks
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Photonic up-conversion of Carrierless Amplitude Phase signals for wireless communications on the Ka-band
Rodríguez Páez, J. S., Puerta Ramirez, R., Kim, H., Rodríguez Páez, J. S. & Tafur Monroy, I., 2016, In : Microwave & Optical Technology Letters. 58, 9, p. 2068-2070
Research output: Contribution to journal › Letter – Annual report year: 2016 › Research › peer-review

Microwave photonics technologies supporting high capacity and flexible wireless communications systems
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2015 › Research › peer-review

Radio-over-Fiber Transmission Using Vortex Modes
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2015 › Research › peer-review

Class-E PA design methodology by re-tuning
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

FLEXOR: A modular wireless network tool for WBAN systems
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review
Miniaturized Rat-Race Hybrid for 2.4 GHz ISM Band
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Characterization of the branch-line and rat-race ideal hybrids through their merit parameters
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review

Design and Implementation of a LNA in UHF band using microstrip
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review

Diseño y Evaluación de un Filtro Fractal Miniaturizado para
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research › peer-review

Metodología de Diseño de LNA en UHF
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research › peer-review

Projects:

Dynamic switching of W-band signals for Active and Reconfigurable delivery
Marie Curie (EU-stipendium)
15/05/2015 → 06/06/2018
Project: PhD

Dynamic switching of W-band signals for Active and Reconfigurable delivery
Vegas Olmos, J. J., Rodriguez Páez, J. S. & Tafur Monroy, I.
15/05/2015 → 14/05/2018
Project: Research