

Dr. Ramón Agüero

CONTACT INFORMATION	University of Cantabria Department of Communications Engineering Edificio Ingeniería de Telecomunicación Plaza de la Ciencia s/n Santander, 39005 - Spain	Work: +34 942 203 916 Fax: +34 942 201 488 eMail: ramon@tlmat.unican.es ramon.agueroc@unican.es www: www.tlmat.unican.es
EDUCATION	Ph.D, Communications Engineering at University of Cantabria (Spain), March 2008 <ul style="list-style-type: none">• Thesis Topic: <i>Contribution to the performance enhancement over non-conventional wireless access networks</i>• Extraordinary Award (University of Cantabria)• Social Council Award (University of Cantabria)• Best PhD by the Spanish Association of Communication Engineers• The PhD (in Spanish) can be accessed here M.Sc, Telecommunications Engineering at University of Cantabria (Spain), April 2001 <ul style="list-style-type: none">• With honors (1st of 80)• Awarded as the 2nd best graduate in Telecommunications Engineering by the Spanish Ministry of Education• The thesis was awarded as the best M.Sc thesis by the Spanish Association of Communication Engineers	
CURRENT ACADEMIC APPOINTMENTS	Full Professor , University of Cantabria (Spain) Network Planning and Mobile Communications Laboratory Department of Communications Engineering Deputy Director (Vice-Dean) of Doctoral School University of Cantabria Doctoral School	April 2023 to present Jul 2025 to present
PREVIOUS ACADEMIC APPOINTMENTS	Head of Digital Transformation University of Cantabria Head of the Campus Area University of Cantabria Head/Director of Communications Engineering Department University of Cantabria Department of Communications Engineering Deputy Director of Communications Engineering Department University of Cantabria Department of Communications Engineering Associate Professor , University of Cantabria (Spain) Network Planning and Mobile Communications Laboratory Department of Communications Engineering Assistant Lecturer , University of Cantabria (Spain) Network Planning and Mobile Communications Laboratory Department of Communications Engineering Senior Researcher , University of Cantabria (Spain) Network Planning and Mobile Communications Laboratory Department of Communications Engineering	Jan 2021 to Feb 2025 May 2016 to Jan 2021 Oct 2015 to May 2016 Jan 2015 to Sep 2015 2010 to 2023 2006 to 2010 2002 to 2006

CURRENT
TEACHING
RESPONSIBILITIES

Associate Professor at **University of Cantabria**, (Spain)

Main Instructor in B.Sc courses

- Communication Networks
 - Undergraduate course (2nd year) in B.Sc on Telecommunications Engineering
 - Basic Teletraffic and Network Dimensioning
 - Syllabus available [here](#)
 - Slides and course materials (Spanish) available [here](#)
- Network Dimensioning and Planning
 - Undergraduate course (3rd year) in B.Sc on Telecommunications Engineering
 - Advanced Teletraffic and Network Dimensioning, Graph Theory
 - Syllabus available [here](#)
 - Slides and course materials (Spanish) available [here](#)

Instructor in M.Sc courses

- Network Design and Operation
 - 1st year course in M.Sc on Telecommunications Engineering
 - Performance analysis, access to shared channels, multiple access, routing, TCP
 - Syllabus available [here](#)
 - Slides and course materials (Spanish) available [here](#)

STUDENT
ADVISING

Johnny Choque

PhD on Communications Engineering, University of Cantabria. *On the contribution to access selection in heterogeneous wireless networks* July 2014. Summa Cum Laude.

The PhD (in Spanish) can be accessed [here](#)

David Gómez Fernández

PhD on Communications Engineering, University of Cantabria. *Reliable Communications over Wireless Mesh Networks by means of Network Coding and Multi-Path Techniques*. May 2015. Summa Cum Laude.

The PhD (in Spanish) can be accessed [here](#)

José Ángel Irastorza

PhD on Communications Engineering, University of Cantabria. *A distributed management architecture for wireless mesh networks and its application over personal network environments*. February 2016. Summa Cum Laude.

The PhD (in Spanish) can be accessed [here](#)

Luis Francisco Diez Fernández

PhD on Information Technologies and Mobile Communications, University of Cantabria. *Reducing the exposure to electro-magnetic fields in heterogeneous networks: design and analysis*, May 2018. Summa Cum Laude.

The PhD (in English) can be accessed [here](#)

The PhD was **awarded** by the Spanish Telecommunication Engineering Association in 2019.

Pablo Garrido Ortiz

PhD on Information Technologies and Mobile Communications, University of Cantabria. *Opportunistic Network Coding over wireless networks*, September 2018. Summa Cum Laude.

The PhD (in English) can be accessed [here](#)

Mihail Zverev

PhD on Information Technologies and Mobile Communications, University of Cantabria in collaboration with Ikerlan. *Reducing transport protocol latency: QUIC protocol enhancements*, June 2023. Outstanding, A. The PhD (in English) can be accessed [here](#)

Fátima Fernández Pérez

PhD on Information Technologies and Mobile Communications, University of Cantabria in collaboration with Ikerlan. *Enhancing QUIC to improve e2e connectivity in IIoT environments*, June 2024. Summa Cum Laude. The PhD (in English) can be accessed [here](#)

Neco Villegas

PhD on Information Technologies and Mobile Communications, University of Cantabria. *Management of computing and communication resources for next generation networks*, Expected 2027

Fátima Khan

PhD on Information Technologies and Mobile Communications, University of Cantabria. *Optimum management of transport networks to guarantee QoS on O-RAN disaggregated topologies*, Expected 2027

Laura Rodríguez de Lope

PhD on Information Technologies and Mobile Communications, University of Cantabria. *Optimizing renewable energy systems with Artificial Intelligence and Digital Twins*, Expected 2027

Daniel Jaramillo

PhD on Information Technologies and Mobile Communications, University of Cantabria. *Optimum placement of O-DU and O-CU for disaggregated O-RAN*, Expected 2029

BSc and MSc thesis supervision

More than 80 thesis supervised since 2002

PROJECT EXPERIENCE

Ramón Agüero holds a strong experience in different collaborative research projects, highlighting those belonging to the various IST Frameworks. He has coordinated the participation of University of Cantabria in, at least, 6 of them. In addition he has also taken different responsibility roles: task leader, work-package leader, technical manager. Some of the most relevant ones, from the last 10 years, are enumerated below.

MultiX: Advancing 6G-RAN through multi-technology, multi-sensor fusion, multi-band and multi-static perception

- *European Project*
- Project duration: 2025-2027
- Project coordinator: Prof. Antonio de la Oliva
- Role: Project Coordinator at University of Cantabria

6G-SENSES: Seamless Integration of Efficient 6G Wireless Technologies for Communication and Sensing

- *European Project*
- Project duration: 2024-2026
- Project coordinator: Dr. Jesús Gutiérrez Terán
- Role: Project Coordinator at University of Cantabria

5G-TACTIC: 5G Trusted and Secure Network Services

- *European Project*
- Project duration: 2023-2026
- Project coordinator: Prof. Anna Tzanakaki
- Role: Project Coordinator at University of Cantabria

Digital Twin Enabling Technologies, and their application within the communications and chemical verticals

- *Cantabria Regional Project*

- Project duration: 2023-2026
- Project coordinator: Prof. Ramón Agüero
- Role: Project Coordinator

QoS and queue management techniques for transport networks

- *Spanish Research Project, within the Virtualized, adaptative, and blurred network architectures (6GBLUR)*
- Project duration: 2023-2024
- Project coordinator: Dr. Josep Mangues
- Role: Project Coordinator at University of Cantabria

Modeling and performance assessment of novel 5G/6G network access architectures

- *Spanish Research Project, within the Operational Planning and dimensioning Tool for operator network Infrastructures Moving to Advanced 5G/6G leveraging on AI techniques (OPTIMAIX)*
- Project duration: 2023-2024
- Project coordinator: Prof. Oriol Sallent
- Role: Project Coordinator at University of Cantabria

Deployment of Fog/Cloud Continuum Solutions. Performance Evaluation

- *Research contract with Ikerlan S. Coop.*
- Project duration: 2023
- Project coordinator: Dr. Ramón Agüero
- Role: Project Coordinator

Digital twin of a hybrid system solar photovoltaic-hydrogen for the energy self-sufficiency within the residential sector

- *Spanish Research Project*
- Project duration: 2022-2024
- Project coordinator: Dr. Ramón Agüero
- Role: Principal Researcher

Semantically-enabled Interoperable Trustworthy Enriched Data-spaces

- *Spanish Research Project*
- Project duration: 2022-2025
- Project coordinator: Dr. Luis Sánchez
- Role: Senior researcher

Design, implementation and evaluation of an IoT-Fog-Cloud platform: connectivity protocols and orchestration techniques assessment

- *Research contract with Ikerlan S. Coop.*
- Project duration: 2021-2022
- Project coordinator: Dr. Ramón Agüero
- Role: Project coordinator

Development of a demonstrator for a three-tier IoT-Fog-Cloud architecture

- *Research contract with Ikerlan S. Coop.*
- Project duration: 2020-2021
- Project coordinator: Dr. Ramón Agüero
- Role: Project coordinator

Advanced methodologies for performance evaluation and QoX in telematics networks and services, EVEREST

- *Spanish Research Network of Excellence*

- Project duration: 2020-2021
- Project coordinator: Dr. Dolores Cano
- Role: Principal researcher at University of Cantabria

Future Internet Enabled Resilient Cities, FIERCE

- *Spanish Research Project*
- Project duration: 2019-2021
- Project coordinator: Dr. Luis Sánchez
- Role: Senior researcher

Flexible IoT Networks for Value Creators, FLEXNET

- *CELTIC Project*
- Project duration: 2017-2021
- Project coordinator: Dr. Zbigniew Kopertowski (Orange)
- Role: Senior researcher

Dynamic provisioning of connectivity in high density 5G wireless scenarios, ADVICE

- *Spanish Research Project*
- Project duration: 2016-2018
- Project coordinator: Dr. Ramón Agüero
- Role: Principal researcher, coordinator

Connectivity as a Service: Access for the Internet of the Future, COSAIF

- *Spanish Research Project*
- Project duration: 2013-2016
- Project coordinator: Dr. Ramón Agüero
- Role: Principal researcher, coordinator

RELEVANT PUBLICATIONS (LAST 6 YEARS)

In what follows, some of the most relevant publications from the last 6 years (since 2019) is given, in reverse chronological order.

- Neco Villegas, Ana Larrañaga, Luis Diez, Katerina Koutlia, Sandra Lagén, and Ramón Agüero. “Optimizing QoS MAC Scheduling in 5G NR: A Lyapunov Approach Evaluated With XR Traffic,” *IEEE Transactions on Network and Service Management*, vol. 23, pp. 910-924. doi:10.1109/TNSM.2025.3631520
- Ana Larrañaga, Neco Villegas, Luis Diez, Katerina Koutlia, Ramón Agüero, Sandra Lagén. “Analysis of different functional split options for XR traffic in 5G-LENA”. *Simulation Modelling Practice and Theory*, 145 doi:10.1016/j.simpat.2025.103211
- Miguel Barón, Luis Diez, Mihail Zverev, José Ramón Juárez, and Ramón Agüero. “On the performance of Zenoh in Industrial IoT Scenarios,” *Ad Hoc Networks*, Vol. 170 doi: 10.1016/j.adhoc.2025.103784
- Johnny Choque, Alberto E. García, Luis Diez, and Ramón Agüero. “Security Risks in O-RAN: Vulnerabilities and Mitigation Countermeasures”. *Proceedings of the 2025 International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM)* doi:10.1109/MSWiM67937.2025.11309078
- Juan-Luis Herrera, Neco Villegas, Luis Diez, Domenico Scotece, Luca Foschini, and Ramón Agüero. “A software architecture for seamless simulated to real testbed transition for O-RAN AI,” *16th International Conference on Network of the Future (NOF 2025)* doi:10.1109/NoF66640.2025.11223328 (**Best Paper Award**)

- Gorka Nieto, Neco Villegas, Luis Diez, Idoia de la Iglesia, Unai López, Cristina Perfecto, Ramón Agüero. “Comparing control theory and deep reinforcement learning techniques for decentralized task offloading in the edge-cloud continuum,” *Simulation Modelling Practice and Theory*, 144. (2025) doi:10.1016/j.simpat.2025.103170
- Neco Villegas, Juan-Luis Herrera, Luis Diez, Domenico Scotece, Luca Foschini, and Ramón Agüero. “DRL-based dynamic MAC scheduler reconfiguration in O-RAN,” *2025 IEEE International Conference on Communications (ICC)* doi:10.1109/ICC52391.2025.11160805
- Fátima Khan, Óscar Gil, Luis Diez, Elena Serna, Luis M. Contreras, and Ramón Agüero. “End-to-end delay analysis in disaggregated O-RAN fronthaul networks,” *2025 IEEE International Conference on Communications (ICC)* doi:10.1109/ICC52391.2025.11161848
- Fariborz Derakhshan, Andreas Timm-Giel, and Ramón Agüero. “Reducing content retrieval latency in ICN,” *16th International Conference on Ubiquitous and Future Networks (ICUFN)* doi:10.1109/ICUFN65838.2025.11169822
- Ana Larrañaga, Neco Villegas, Katerina Koutlia, Luis Diez, Ramón Agüero, and Sandra Lagén. “Novel fronthaul control method to address the fronthaul/air interface tradeoff,” *IEEE Wireless Communications and Networking Conference (WCNC 2025)* doi:10.1109/WCNC61545.2025.10978658
- Laura Rodríguez de Lope, Víctor M. Maestre, Luis Diez, Alfredo Ortiz, Ramón Agüero, and Inmaculada Ortiz, “A comprehensive aI-based digital twin model for residential hydrogen-based energy systems,” *IEEE Open Journal of the Computer Society*, 2025, 6, 1317-1328, doi:10.1109/OJCS.2025.3594439
- Fátima Fernández, Fátima Khan, Mihail Zverev, Luis Diez, José Ramón Juárez, Anna Brunstrom and Ramón Agüero. “Exploiting stream scheduling in QUIC: Performance assessment over wireless connectivity scenarios,” *Ad Hoc Networks*, Vol. 164 doi:10.1016/j.adhoc.2024.103599
- Fariborz Derakhshan, Andreas Timm-Giel, and Ramón Agüero. “On Popularity- and Volume-Based Reduction of Logistic Costs in ICN,” *2024 IEEE International Conference on Communications Workshops (ICC Workshops)* doi:10.1109/ICCWorkshops59551.2024.10615847
- L. Diez, R. Agüero, J. Pérez-Romero, J. L. Gorricho, O. Sallent, J. Serrat, E. Fernández, J. Moreno, P. Pavón, I. González, A. Santiago, M. Richart, J. Baliosian, A. Muñiz, and L.M. Contreras. “Exploiting a Network Digital Twin to optimize B5G networks management. The OPTIMAIX approach,” *2024 IEEE International Mediterranean Conference on Communications and Networking (MeditCom)* doi:10.1109/MeditCom61057.2024.10621391
- Fátima Khan, Luis Diez, Luis M. Contreras, Óscar Gil, Elena Serna, David Gregoratti, and Ramón Agüero. “QoS-Aware scheduling policies for Open Fronthaul transport networks,” *2024 IEEE International Mediterranean Conference on Communications and Networking (MeditCom)* doi:10.1109/MeditCom61057.2024.10621072
- Neco Villegas, Ana Larrañaga, Luis Diez, Katerina Koutlia, Sandra Lagén, and Ramón Agüero. “Extending QoS-aware scheduling in ns-3 5G-LENA: A Lyapunov based solution,” *2024 Workshop on ns-3 (WNS3 2024)* doi:10.1145/3659111.3659118
- Laura Rodríguez de Lope, Víctor M. Maestre, Luis Diez, Alfredo Ortiz, Ramón Agüero, and Inmaculada Ortiz, “Modeling a digital twin for the optimization of a self-supply energy system for residential use,” *2024 IEEE International Systems Conference (SysCon)*, doi: 10.1109/SysCon61195.2024.10553483
- Neco Villegas, Sofía Pérez, Luis Diez, and Ramón Agüero, “Joint and dynamic optimization of functional split selection and slice configuration in vRAN,” *2024 IEEE Wireless Communications and Networking Conference (WCNC)*, doi:10.1109/WCNC57260.2024.10570544

- Fátima Khan, Fátima Fernández, Luis Diez, and Ramón Agüero. “Exploiting QUIC multi-streaming over NTN: Delay-based scheduling policies,” *IEEE Global Communications Conference, Globecom 2023* doi:10.1109/GLOBECOM54140.2023.10436832
- Sidna Jeddou, Luis Diez, Najid Abdallah, Amine Baina, Ramón Agüero, “On the Performance of Transport Protocols Over mmWave Links: Empirical Comparison of TCP and QUIC,” *IEEE Open Journal of the Communications Society*, 10.1109/OJCOMS.2023.3325764
- Fátima Fernández, Mihail Zverev, Luis Diez, José R. Juárez, Anna Brunstrom, and Ramón Agüero. “Flexible Priority-based Stream Schedulers in QUIC”. *Proceedings of the 20th ACM International Symposium on Performance Evaluation of Wireless Ad Hoc, Sensor, & Ubiquitous Networks (PE-WASUN '23)* doi:10.1145/3616394.3618267
- Cristian C. Erazo-Agredo, Luis Diez, Ramón Agüero, Mario Garza-Fabre, Javier Rubio-Loyola, “Enabling realistic experimentation of disaggregated RAN: Design, implementation, and validation of a modular multi-split eNodeB,” *Computer Networks Volume 235, November 2023*, doi:10.1016/j.comnet.2023.109993
- Fátima Khan, Cristina Hervella, Luis Diez, Fátima Fernández, Néstor J. Hernández-Marcano, Rune Hylsberg Jacobsen, and Ramón Agüero. “Realistic Assessment of Transport Protocols Performance over LEO-based Communications”, *Computer Networks Volume 236, November 2023*, doi:10.1016/j.comnet.2023.110008
- Neco Villegas, Luis Diez, Idoia De La Iglesia, Marco González-Hierro, and Ramón Agüero, “Energy-Aware Optimum Offloading Strategies in Fog-Cloud Architectures: A Lyapunov Based Scheme,” *IEEE Access, vol. 11, pp. 73116-73126, 2023*, doi:10.1109/ACCESS.2023.3295496
- Cristina Hervella, Luis Diez, Fátima Fernández, Néstor J. Hernández-Marcano, Rune Hylsberg Jacobsen, and Ramón Agüero. “Realistic Assessment of Transport Protocols Performance over LEO-based Communications”. *Proceedings of the 19th ACM International Symposium on Performance Evaluation of Wireless Ad Hoc, Sensor, & Ubiquitous Networks (PE-WASUN '22)* doi:10.1145/3551663.3558680
- Néstor Hernández-Marcano, Luis Diez, Ramón Agüero, Rune Hylsberg-Jacobsen, “Finite Buffer Queuing Delay Performance in the Low Earth Orbit Land Mobile Satellite Channel” *Proceedings of IEEE WCNC 2022* doi:10.1109/WCNC51071.2022.9771859
- Sidna Jeddou, Fátima Fernández, Luis Diez, Amine Baina, Najid Abdallah, Ramón Agüero, “Delay and Energy Consumption of MQTT over QUIC: An Empirical Characterization Using Commercial-Off-The-Shelf Devices,” *Sensors 2022, 22(10), 3694* doi:10.3390/s22103694
- Voichita Iancu, Luis Diez, Emil Slusanschi, Ramón Agüero, “Balancing the Electromagnetic Field Exposure in Wireless Multi-Hop Networks: An EMF-Aware Routing Scheme” *Mathematics 2022, 10, 668* doi:10.3390/math10040668
- Luis Diez, Alberto Martínez-Alba, Wolfgang Kellerer, Ramón Agüero, “Flexible Functional Split and Fronthaul Delay: A Queuing-Based Model” *IEEE Access 2021, Vol. 9.* doi: 10.1109/ACCESS.2021.3124374
- Fátima Fernández, Mihail Zverev, Pablo Garrido, José R. Juárez, Josu Bilbao, Ramón Agüero, “Even Lower Latency in IIoT: Evaluation of QUIC in Industrial IoT Scenarios,” *Sensors 2021, 21(17), 5737.* doi:10.3390/s21175737
- Mihail Zverev, Pablo Garrido, Fátima Fernández, Josu Bilbao, Özgü Alay, Simone Ferlin, Anna Brunstrom, Ramón Agüero, “Robust QUIC: Integrating Practical Coding in a Low Latency Transport Protocol,” *IEEE Access 2021, Vol. 9.* doi:10.1109/ACCESS.2021.3118112

- Cristian C. Erazo-Agreto, Mario Garza-Fabre, Ramón Agüero, Luis Diez, Joan Serrat, Javier Rubio-Loyola, “Joint Route Selection and Split Level Management for 5G C-RAN,” *IEEE Transactions on Network and Service Management* doi:10.1109/TNSM.2021.3091543
- Néstor Hernández-Marcano, Luis Diez, Ramón Agüero, Rune Hylsberg-Jacobsen, “On the Queuing Delay of Time-Varying Channels in Low Earth Orbit Satellite Constellations,” *IEEE Access* doi:10.1109/ACCESS.2021.3089005
- Luis Diez, Cristina Hervella, Ramón Agüero, “A Quasi-Birth-Death model for Functional Split in 5G Controllers,” *Proceedings of IEEE ICC 2021* doi:10.1109/ICC42927.2021.9500266
- Luis Diez, Cristina Hervella, Ramón Agüero, “Understanding the performance of flexible functional split in 5G vRAN Controllers: A Markov Chain-based model,” *IEEE Transactions on Network and Service Management*, 18(1) (March 2021) doi:10.1109/TNSM.2020.3045968
- Luis Diez, Alfonso Fernández, Muhammad Khan, Yasir Zaki, Ramón Agüero, “Can We Exploit Machine Learning to Predict Congestion over mmWave 5G Channels?” *Appl. Sci.* 2020, 10(18), 6164, doi:10.3390/app10186164
- Luis Diez, Ramón Agüero, Alfonso Fernández, Yasir Zaki, Muhammad Khan, “Learning congestion over millimeter-wave channels,” *Proceedings of IEEE Wimob, 2020* doi:10.1109/WiMob50308.2020.9253443
- Fátima Fernández, Mihail Zverev, Pablo Garrido, José R. Juárez, Josu Bilbao, Ramón Agüero, “And QUIC meets IoT: performance assessment of MQTT over QUIC,” *Proceedings of IEEE Wimob, 2020* doi:10.1109/WiMob50308.2020.9253384
- M. Richart, J. Baliosian, J. Serrat, J. Gorricho and R. Agüero, “Slicing with Guaranteed Quality of Service in WiFi Networks,” *IEEE Transactions on Network and Service Management*, 17(3), (September 2020) doi:10.1109/TNSM.2020.3005594
- Goiuri Peralta, Pablo Garrido, Josu Bilbao, Ramón Agüero, Pedro M. Crespo. “Fog to cloud and network coded based architecture: Minimizing data download time for smart mobility”. *Simulation Modelling Practice and Theory*, 101. (May 2020) doi:10.1016/j.simpat.2019.102034
- Javier Rubio-Loyola, Christian Aguilar-Fuster, Luis Diez, Ramón Agüero, Juan-Luis Gorricho, Joan Serrat. “Fast and Efficient Energy-Oriented Cell Assignment in Heterogeneous Networks”. *Wireless Networks, Springer, 2020*. doi:10.1007/s11276-019-02047-x
- Luis Diez, Andres Garcia-Saavedra, Victor Valls, Xi Li, Xavier Costa-Perez, Ramon Agüero. “LaSR: A Supple Multi-Connectivity Scheduler for Multi-RAT OFDMA Systems”. *IEEE Transactions on Mobile Computing*, 19(3) March 2020. doi:10.1109/TMC.2018.2876847

EDITORIAL SERVICES

- *Mobile Networks & Applications, Springer*. Guest Editor of 8 Special Issues since 2011
- *Wireless Networks, Springer*. Member of the editorial board since January, 2015
- *IEEE Communication Letters*. Member of the editorial board since January, 2017. Senior Editor from September 2019 until June 2023. Area Editor from July 2023. Exemplary editor recognition in 2019, 2021 and 2022.
- *Mobile Information Systems, Hindawi*. Member of the editorial board, from June, 2018 to July, 2023.
- *IEEE Open Journal of the Communication Society*. Member of the editorial board from September, 2019 to April, 2025

	<ul style="list-style-type: none"> - <i>IEEE Systems Journal</i>. Member of the editorial board since January, 2023. - <i>IEEE Transactions on Network and Service Management, TNSM</i>. Member of the editorial board since January, 2026.
COMMITTEE AND REFEREE SERVICES	<ul style="list-style-type: none"> - General Chair of the <i>Mobile Networks and Management, MONAMI</i> conference in 2010, 2015 and 2016 - TPC Chair of the <i>Mobile Networks and Management, MONAMI</i> conference in 2009, 2011, 2012, 2013 and 2014 - Mobile and Wireless Networks Track Chair in the <i>International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC)</i> in 2015 and 2016 - Emerging Technologies, Architectures and Services Track Chair in the <i>IEEE Wireless Communications and Networking Conference (WCNC)</i> in 2018. - Applications and Business Track Chair in the <i>International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC)</i> in 2020. - TPC Chair in European Wireless 2019. - Workshop Chair in European Conference on Networks and Communications, EUCNC 2019. - Communication QoS, Reliability, & Modeling Symposium Co-chair in <i>IEEE GLOBECOM</i> 2021. - Workshop chair in the <i>IEEE Wireless Communications and Networking Conference (WCNC)</i> in 2024. - Tutorial chair in the <i>IEEE International Mediterranean Conference on Communications and Networking (MeditCom)</i> in 2024. - Applications, Platforms and Business Track Chair in the <i>International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC)</i> in 2024. - Workshop chair in the <i>IEEE International Conference on Communications (ICC)</i>, in 2026 - Regular TPC member of various conferences, including: PIMRC, WCNC, WiMob, ISWCS, ICC, Globecom, Wireless Days, European Wireless - Regular reviewer of several journals and magazines, including: IEEE Communications Magazine, IEEE Transactions on Networking, IEEE Communication Letters, Wireless Networks, Computer Networks
INVITED TALKS, TUTORIALS	<ul style="list-style-type: none"> - Tutorial speaker in European Wireless 2018. “Intra-flow sparse network coding: Modeling and open issues” - Tutorial speaker in Globecom 2025. “Leveraging O-RAN and ISAC for Sensing-aware Radio Resource Management in 6G networks”
OTHER RESPONSIBILITIES	<p>Ramón Agüero was the main organizer and chaired the following two Summer Schools.</p> <ul style="list-style-type: none"> - SAIL Summer School. Santander, June 25th-28th, 2012. More than 50 attendees the event, which featured 11 Lectures and 2 keynotes. A PhD Work-In-Progress session was also organized within the event. - LEXNET Summer School on Low-EMF Communications and Networking. Santander, July 6th-9th, 2015. More than 40 attendees the event, which featured 11 different talks.
ADDITIONAL INFORMATION	<ul style="list-style-type: none"> - IEEE Senior Member since 2015