



Parte A. DATOS PERSONALES

Nombre	Almudena		
Apellido	Díaz Zayas		
Núm. Identificación del investigador (ORCID)	0000-0002-1226-6135		

A.1. Situación profesional actual

Organismo	Profesora titular de Universidad
Organismo	Universidad de Málaga
Departamento	Tecnología Electrónica
País	España
Palabras claves	Mobile network, testbeds, automation, experimentation, testing

A.4 Indicadores generales de calidad de la producción científica

Sexenios	3
Tesis dirigidas	1
Citas totales (Web of Science)	329
Índice (Web of Science)	10
Publicaciones Q1 (JCR)	9

Parte C. MÉRITOS MÁS RELEVANTES

C.1. Publicaciones

Wang, H (Wang, Hua) ; Aguilar, AP (Aguilar, Adrian Perez) ; Zayas, AD (Zayas, Almudena Diaz) ; Madueño, GC (Madueno, German Corrales) ; Zhang, CM (Zhang, Changming) ; Hao, N (Hao, Nan) ; Yu, XB (Yu, Xianbin), A general QoE assessment framework for applications and services, *Computer Networks*, 2023 DOI10.1016/j.comnet.2023.109641 (Q1)

Erik Aumayr, Giuseppe Caso, Anne-Marie Bosneag, Almudena Diaz Zayas, Özgü Alay, Bruno Garcia, Konstantinos Kousias, Anna Brünstrom, Pedro Merino Gomez, Harilaos Koumaras, Service-based Analytics for 5G open experimentation platforms , 2022, 108740, ISSN 1389-1286, <https://doi.org/10.1016/j.comnet.2021.108740>. (Q1)

Díaz Zayas, A.; Caso, G.; Alay, Ö.; Merino, P.; Brunstrom, A.; Tsolkas, D.; Koumaras, H. A Modular Experimentation Methodology for 5G Deployments: The 5GENESIS Approach. *Sensors* 2020, 20, 6652. <https://doi.org/10.3390/s20226652> (Q1)

Panizo L, Díaz-Zayas A, García B. Model-based testing of apps in real network scenarios. *International Journal on Software Tools for Technology Transfer*. 22(2), 2020. <https://doi.org/10.1007/s10009-019-00518-2> (Q4)

Díaz-Zayas A, García B, Merino P. 2019. An End-to-End Automation Framework for Mobile Network Testbeds. *Mobile Information Systems*. 2019 <https://doi.org/10.1155/2019/2563917> (Q4)

Díaz-Zayas A, Panizo L, Baños J, Cárdenas C, Dieudonne M. 2018. QoE Evaluation: The TRIANGLE testbed approach. *Wireless Communications and Mobile Computing*. 2018:12. DOI: <https://doi.org/10.1155/2018/6202854> (Q3)

García-Pérez CA, Díaz A, Ríos Á, Merino P, Katsalis K, Chang C-Y, Shariat S, Nikaein N, Rodriguez P, Morris D. 2017. Improving the efficiency and reliability of wearable based mobile eHealth applications. *Pervasive and Mobile Computing*, 2017, 40:674–691. DOI: <https://doi.org/10.1016/j.pmcj.2017.06.021> (Q1)

A. M. Recio, A. Díaz, and P. Merino. Characterizing Radio and Networking Power Consumption in LTE Networks,” *Mobile Information Systems*, vol. 2016, Article ID 2752961, doi:10.1155/2016/2752961, 10 pages, DOI: 2016. 10.1155/9071 (Q4)

Rivas F. Javier, Díaz-Zayas A, Merino P. Characterizing traffic performance in cellular networks. *IEEE Internet Computing*. 18:12–19, 2014. DOI: 10.1155/9071 (Q1)

A. Diaz, C. .A. Garcia. P. Merino: Third-Generation Partnership Project Standards: For Delivery of Critical Communications for Railways. *IEEE Vehicular Technology Magazine*, 9 (2) – Jun 1, 2014. DOI: 10.1109/MVT.2014.2311592 (Q1)

C.2. Congresos

Stavros Eleftherakis, Timothy Otim, Giuseppe Santaromita, Almudena Díaz Zayas, Domenico Giustiniano, and Nicolas Kourtellis. 2024. Demystifying Privacy in 5G Stand Alone Networks. In *Proceedings of the 30th Annual International Conference on Mobile Computing and Networking (ACM MobiCom '24)*. Association for Computing Machinery, New York, NY, USA, 1330–1345.

A. P. Aguilar, M. Lecci, A. D. Zayas and H. Wang, "Objective QoE Prediction for Video Streaming Services: A Novel Full-Reference Methodology," *2024 IEEE 99th Vehicular Technology Conference (VTC2024-Spring)*, Singapore, Singapore, 2024, pp. 1-7, doi: 10.1109/VTC2024-Spring62846.2024.10683464.

George Margetis et al., Validation of NFV management and orchestration on Kubernetes-based 5G testbed environment, 2nd WORKSHOP ON ARCHITECTURAL EVOLUTION TOWARD 6G NETWORKS (6GARCH), Globecom, December, 2022

K. C. Apostolakis et al., "Cloud-Native 5G Infrastructure and Network Applications (NetApps) for Public Protection and Disaster Relief: The 5G-EPICENTRE Project," 2021 Joint European Conference on Networks and Communications & 6G Summit (EuCNC/6G Summit), 2021, pp. 235-240, doi: 10.1109/EuCNC/6GSummit51104.2021.9482425.

A. D. Zayas et al., "TRIANGLE: a Platform to Validate 5G KPIs in End to End scenarios," 2018 IEEE 23rd International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD), 2018, pp. 1-7, doi: 10.1109/CAMAD.2018.8514947.

F. J. Rivas Tocado, A. D. Zayas and P. Merino, "A methodology and test environment for QoS measurements in mobile networks," 2017 IFIP/IEEE Symposium on Integrated Network and Service Management (IM), 2017, pp. 823-828, doi: 10.23919/INM.2017.7987379.

A. Díaz, A. Salmerón, F. J. Rivas, P. Merino. Advanced Testing of Mobile Applications and Devices, IFIP/IEEE International Symposium on Integrated Network Management. 2017

A. D. Zayas and P. Merino, "The 3GPP NB-IoT system architecture for the Internet of Things," 2017 IEEE International Conference on Communications, 2017, pp. 277-282, doi: 10.1109/ICCW.2017.7962670.

A. F. Cattoni et al., "An end-to-end testing ecosystem for 5G," 2016 European Conference on Networks and Communications (EuCNC), 2016, pp. 307-312, doi: 10.1109/EuCNC.2016.7561053.

A. Díaz-Zayas, Á. M. Recio-Pérez, C. A. García-Pérez and P. Merino, "Remote control and instrumentation of Android devices," 2016 13th International Conference on Remote Engineering and Virtual Instrumentation (REV), 2016, pp. 190-195, doi: 10.1109/REV.2016.7444463.

C.3. Proyectos de investigación

6G-PATH, 6G Pilots and Trials Through Europe, HORIZON-JU-SNS-2023, Grant agreement ID: 101139172, **Investigadora Principal**, 01/01/2024-31/12/2026

FIDAL. Field Trials beyond 5G, HORIZON-JU-SNS-2022-STREAM-D-01-01, HORIZON-JU-IA, Proposal number: 101096146, **Investigadora Principal**, 01/01/2023-31/12/2025.

5G-SANDBOX. Supporting Architectural and technological Network evolutions through an intelligent, secure and twinning enabled Open experimentation facility, HORIZON-JU-SNS-2022-STREAM-C-01-01, Type of Action: HORIZON-JU-RIA, Proposal number: 101096328, **Equipo Investigador**, 01/01/2023-31/12/2025.

5G+TACTILE_5: Infraestructura de pruebas 5G/6G y demostradores, Proyectos innovadores en el despliegue de las tecnologías 5G avanzado y 6G, en el marco del Plan de Recuperación, Transformación y Resiliencia. **Investigadora Principal**

5G-Epicentre. 5G Experimentation Infrastructure hosting Cloud-native Netapps for public protection and disaster relief. Horizon 2020, 101016521, 36 meses, 1/01/2021-31/12/2023, **Investigadora Principal**

Evolved-5G. Experimentation and Validation Openness for Long-term evolution of Vertical Industries in 5G era and beyond. Horizon 2020, 101016607, 36 meses, 1/01/2021-31/12/2023, **Equipo Investigador**

Affordable5G. High-tech and affordable 5G network roll-out to every corner, European Commission, Horizon 2020, 957317, 24 meses, 01/09/2020-31/08/2022, **Equipo Investigador**

5Genesis. 5th Generation End-to-end Network, Experimentation, System Integration, and Showcasing. H2020-ICT-2018-2020, 36 meses, 2018-2021, **Investigadora Principal**,

NRG-5. Enabling Smart Energy as a Service via 5G Mobile Network advances (NRG-5), H2020-ICT-2016-2, 5G PPP Research and Validation of critical technologies and systems , Research and Innovation action, Proposal number 762013, 17 meses, 1/07/2018 - 31/12/2019, **Investigadora Principal**

TRIANGLE. 5G applications and devices benchmarking, Comisión Europea. H2020-ICT.Grant Agreement 688712, 36 meses, 2016-2018, **Equipo Investigador**

EuWireless - Design of the European mobile network operator for research, Horizon 2020, 777517, 01/01/2018-31/03/2020, 27 meses, **Equipo Investigador**

C.4. Contratos

5GNaCAR – 5G con Facilidades de Network-as-Code para Aplicaciones sobre Red Móvil, a ejecutar dentro del Programa, UNICO SECTORIAL 5G 2022 de la Secretaría de Estado de Telecomunicaciones e Infraestructuras Digitales. Empresa Contratante: TELEFÓNICA INNOVACIÓN DIGITAL, S.A.U..Duración del contrato de 01/11/2023 a 31/01/2025, **Investigadora Principal**

Proyecto con empresa Keysight “5G QoE based on the Triangle project results”, **Investigadora Principa**

IProyecto con empresa Keysight SIGO FEDER-INTERCONECTA, Diseño de planes de pruebas para dispositivos móviles, **Equipo Investigador**

Proyecto con empresa AT4 Wireless (WITLE 8.06/47.3154), Titulada Superior, Investigación en técnicas de certificación de servicios IP en redes móviles, Equipo investigador

Proyecto con empresa OPTIMI SPAIN S.L.U, Titulado Superior de Apoyo a la Investigación, Medición de la calidad del servicio en la telefonía móvil de tercera generación, **Equipo Investigador**