



CV date	05/2026
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Parte A. Personal Information

First name	José Manuel		
Family Name	Cano García		
Gender (*)	Male	Birth date (dd/mm/yyyy)	
DNI, NIE, passport			
email		Web URL	
Open Researcher and Contributor ID (ORCID) (*)	0000-0002-8211-7602		

* datos obligatorios

A.1. Current position

Position	Associate professor (Profesor Titular de Universidad)		
Initial date	06/04/2017		
Institution	Universidad de Málaga		
Department/Center	Dpto. Tecnología Electrónica/ETSI de Telecomunicación		
Country	Spain	Phone	
Key words	Sensor and actuator networks, embedded systems, IoT		

A.2. Previous positions (research activity interruptions, art. 13.2.b))

Period	Position/Institution/Country/Interruption cause
24/10/2000-12/01/2003	Profesor asociado a tiempo completo (Dpto. Tecnología Electrónica, Universidad de Málaga)
12/01/2003-05/04/2017	Profesor titular de escuela universitaria (Dpto. Tecnología Electrónica, Universidad de Málaga)

A.3. Education

Degree	University/Country	Year
Telecommunication Engineer	Universidad de Málaga	2000
Diploma de estudios avanzados (DEA)	Universidad de Málaga	2001
PhD	Universidad de Málaga	2016

Part B. Summary

José Manuel Cano García is a member of the DIANA research group (TIC171, Junta de Andalucía) and an associate professor in the Department of Electronic Technology at the School of Telecommunications Engineering (ETSI) at the University of Málaga. He is also a member of the Telecommunications Research Institute (TELMA) at the same university. He currently holds four six-year research periods ('sexenios') awarded by the CNEAI, the most recent granted on May, 2026.

His research focuses on embedded systems for wireless sensor and actuator networks, as well as low-power wireless technologies for personal area communications. He has participated in 10 R&D projects funded by competitive national and regional programs, serving as principal investigator for two of them: P18-RT-1651, funded by the Andalusian regional government with a budget of €95,342, and TED2021-130456B-I00, funded by the Ministry of Science and Innovation with a budget of €111,780.

In terms of technology transfer, he has been involved in approximately 20 contracts with companies (under Article 83 of the LOU), with a total value exceeding €700,000. He served as principal investigator for two of these contracts, which focused on developing applications for wireless sensor networks in different environments, with a combined budget of around €50,000.

Regarding teaching, he currently lectures on several subjects related to embedded systems based on microprocessors and microcontrollers, as well as personal area wireless technologies, at both undergraduate and master's levels. He has almost 25 years of teaching experience (with four officially recognized five-year teaching periods, 'quinquenios'), during which he has taught in undergraduate, master's, and the former telecommunications engineering programs. He has supervised more than 50 undergraduate and final engineering projects, as well as approximately 15 master's theses. Additionally, he teaches in the Doctoral Program in Telecommunications Engineering at the University of Málaga.

He has reviewed more than 60 articles for various journals, including *Sensors* (MDPI), *Journal of Sensor and Actuator Networks* (MDPI), *Energy* (MDPI), *Smart Cities* (MDPI), *Journal of Ambient Intelligence and Smart Environments* (IOS Press), *ACM Transactions on Multimedia Computing, Communications and Applications*, *Journal of Navigation* (Cambridge), *EURASIP Journal on Wireless Communications and Networking*, *IEEE Communication Letters*, *Wireless Personal Communications* (Springer), and *Wireless Networks* (Springer). He has also served on the technical committee of several conferences, such as the *AdHoc, Sensor and P2P Network Workshop*, *IEEE Vehicular Technology Conference*, *IEEE ICC (2007)*, and *IEEE Globecom*.

Part C. Relevant Merits

C.1. Publications

J.-B. Castillo-Sánchez, J.-M. Cano-García, E. González-Parada and M. Frasheri, "Enabling Autonomous Agents for Mobile Wireless Sensor Networks," *Applied Sciences*, vol. 15, n°11, 6193, 2025. <https://doi.org/10.3390/app15116193>.

J. -B. Castillo-Sánchez, E. González-Parada and J. -M. Cano-García, "Swarm Robot Communications in ROS 2: An Experimental Study," in *IEEE Access*, vol. 12, pp. 142930-142943, 2024, doi: 10.1109/ACCESS.2024.3470254.

J. A. Santoyo-Ramón, E. Casilari, J. M. Cano-García, A study of the influence of the sensor sampling frequency on the performance of wearable fall detectors, *Measurement*, 193, 2022, 110945, ISSN 0263-2241, <https://doi.org/10.1016/j.measurement.2022.110945>.

Santoyo-Ramón, J. A., Casilari Pérez, E. & Cano García, J. M. (2021a). A study on the impact of the users' characteristics on the performance of wearable fall detection systems. *Scientific Reports*, 11(23011).

Santoyo-Ramón, J. A., Casilari Pérez, E. & Cano García, J. M. (2021). A Study of One-Class Classification Algorithms for Wearable Fall Sensors. *Biosensors*, 11(8), 284

Casilari-Perez, E.; Santoyo-Ramón, J.A.; Cano-Garcia, J.M. On the Heterogeneity of existing Repositories of Movements 2 intended for the Evaluation of Fall Detection Systems: *Journal of Healthcare Engineering* (2020)

Santoyo-Ramón, J.-A., Casilari Pérez, E. & Cano García, J. M. Analysis of a Smartphone-Based Architecture with Multiple Mobility Sensors for Fall Detection with Supervised Learning. *Sensors*, 18(4). (2018)

Casilari Pérez, E., Santoyo-Ramón, J.-A. & Cano García, J. M. Analysis of public datasets for wearable fall detection systems. *Sensors*, 17(7). (2017)

González-Parada, E.; Cano-García, J. M.; Aguilera, F; Sandoval Hernández, F.; Urdiales García, C. "A Social Potential Fields approach for self-deployment and self-healing in hierarchical Mobile Wireless Sensor Networks. *Sensors*". 17 - 1, pp. 120 - 141. (2017).

Urdiales García, C.; Aguilera, F.; González Parada, E.; Cano García, J.M.; Sandoval Hernández, F. "Rule-Based vs Behavior-Based Self-Deployment for Mobile Wireless Sensor Networks". *Sensors*. 16 - 7, pp. 1047 - 1061. (2016).

Casilari-Perez, Eduardo; Santoyo-Ramón, Jose Antonio; Cano-Garcia, Jose Manuel. "Analysis of a Smartphone-Based Architecture with Multiple Mobility Sensors for Fall Detection". *PloS One*. 11-12, (2016).

C.2. Congress

J.-B. Castillo-Sánchez, E. González-Parada, and J. M. Cano-García, "A Novel Testbed for Evaluating ROS 2 Robot Swarm Wireless Communications," in 2024 IEEE Mediterranean Electrotechnical Conference (MELECON), Porto, Portugal, Jun. 25–27, 2024.

J. B. Castillo-Sánchez, J. M. Cano-García, E. González-Parada, and M. M. Nadal, "WSAN ZigBee Demonstrator Based on Commercial Home Automation Devices and Development Platforms," in 2024 XVI Technologies Applied to Electronics Teaching Conference (TAEE), Málaga, Spain, 2024, pp. 1–7, doi: 10.1109/TAEE59541.2024.10604957.

J. -B. Castillo-Sánchez, E. Casilari, J. M. Cano-García, E. González-Parada and F. J. González-Cañete, "A Low-cost Home Monitoring Architecture for Human Activity Recognition Using Smartwatches," *2022 IEEE International Mediterranean Conference on Communications and Networking*, Greece, 2022, pp. 172-177, doi: 10.1109/MeditCom55741.2022.9928697.

Jose Antonio Santoyo-Ramón, Eduardo Casilari, and Jose Manuel Cano-García. 2022. A Cross-dataset Evaluation of Wearable Fall Detection Systems. In Proceedings of the 15th International Conference on Pervasive Technologies Related to Assistive Environments (PETRA '22). ACM, 1–6. <https://doi.org/10.1145/3529190.3529191>

M Frasheri, J. M. Cano-Garcia, E. González-Parada, B. Çürüklü, M. Ekström, A. . Papadopoulos, and C. Urdiales, Adaptive Autonomy in Wireless Sensor Networks. In Proceedings of the 19th International Conference on Autonomous Agents and MultiAgent Systems (AAMAS '20). 375–383.

Santoyo-Ramón, J.A., Casilari Pérez, E. & Cano García, J. M (2019). Study of the Detection of Falls Using the SVM Algorithm, Different Datasets of Movements and ANOVA. IEEE IWBBIO: International Work-Conference on Bioinformatics and Biomedical Engineering. Granada (Spain), May 8-10, 2019.

E. Casilari-Perez, J.A. Santoyo-Ramón, J.M. Cano-Garcia, Analysis of a Public Repository for the Study of Automatic Fall Detection Algorithms. 5th International Workshop on Sensor-based Activity Recognition and Interaction (iWOAR 2018), Berlin (Germany). Sept. 2018.

C.3. Research projects

-Title: Sistema AIOT de monitorización y control de bajo coste para agricultura de precisión (TRACTOR) (TED2021-130456B-I00)

Funding organisation: Ministerio de Ciencia e Innovación

Partners and participating organisations: Universidad de Málaga

Duration, from: 01/01/2023 to: 30/09/2025

Main researcher: **José Manuel Cano García** y Eva González Parada

Number of participating researchers: 9

Project budget: 111780€ (including indirect costs)

-Title: Plataforma Abierta para la iNnovación sobre dispositivos IoT con conectividad inalámbrica (PLAN-IoT), (P18-RT-1652)

Funding organisation: Junta de Andalucía (Proyecto de Excelencia)

Partners and participating organisations: Dpto. Tecnología Electrónica (Grupo DIANA)

Duration, from: 01/01/2020 to: 01/03/2023

Main researcher: **José Manuel Cano García** y Eva González Parada

Number of participating researchers: 9

Project budget: 95342€ (including indirect costs)

-Title: Arquitectura de monitorización asistencial ubicua de la movilidad basada en redes de área personal de dispositivos vestibles (UMAFall) (UMA18-FEDERJA-022)

Funding organisation: proyectos de I+D+i en el marco del Programa Operativo FEDER Andalucía 2014-2020 (Modalidad: Retos, Modalidad Investigador: Consolidado)

Partners and participating organisations: Dpto. Tecnología Electrónica

Duration, from: 15/11/2019 hasta: 14/11/2021

Main researcher: Eduardo Casilari Pérez

Number of participating researchers: 10

Project budget: 41.905,07 €

-Title: Proyecto NEREIDAS (eficiencia eNErgética en REdes Inalámbricas cognitivas y de bajo consumo para un DesArrollo Sostenible) (TEC2013-42711-R)

Funding institution: Ministerio de Educación y Ciencia

Involved institutions: Dpto. Tecnología Electrónica

From: 01/01/2015 to: 01/01/2018

Research leader: Juan Manuel Romero Jerez

Number of researchers: 10

Total amount granted: 61100,00€ (no indirect costs included)

-Title: Redes de Arquitectura Mallada para Aplicaciones Sociosanitarias (TEC2009-13763-C02-01)

Funding institution: Ministerio de Educación y Ciencia

Involved institutions: Dpto. Tecnología Electrónica

From: 01/01/2010 to: 31/12/2012

Research leader: Eduardo Casilari Pérez

Number of researchers: 12

Total amount granted: 166738,03€ (indirect costs included)

-Title: AVATAR. Plataforma empotrada de bajo coste para integración de aplicaciones con interacción natural soportadas sobre tecnologías de Realidad Virtual y Realidad Aumentada (P08 4198).

Funding institution: Junta de Andalucía (Proyecto de Excelencia)

Involved institutions: Dpto. Tecnología Electrónica (Grupo DIANA)

From: 01/01/2009 to: 31/12/2011

Research leader: Eva González Parada

Number of researchers: 7

Total amount granted: 207923,68€ (indirect costs included)

C.4. Contracts, technological or transfer merits.

IAL (Indoor Asset Location) Funding company IHMAN, SLL, From: Research leader: José Manuel Cano García. Number of researchers: 2, year 2025-2026, Total amount granted: 21000 €+IVA

“WiTech-Pro: Módulo de transmisión radio de corto alcance orientado a redes de sensores en el marco de los incentivos de la Corporación Tecnológica de Andalucía” (Código: 806/58.5453); Funding company IHMAN, SLL, From: Research leader: González Parada Eva, Number of researchers: 2, year 2019-2020, Total amount granted: 31304 €+IVA

“Realización de trabajos de investigación en el proyecto de investigación, desarrollo e innovación DUMPER, en el marco de los incentivos de la Corporación Tecnológica de Andalucía” (Código: 8.06/5.58.3595); Funding company: IHMAN, SLL; From: 30/02/2011 to: 01/09/2011; Research leader: González Parada, Eva; Number of researchers: 2; Total amount granted: 43500 €.

“Realización de trabajos de investigación consistentes en el diseño e implementación electrónica de hardware, balizas fijas (acopio y perímetro) y TAG,s de carrito, en el proyecto de investigación, desarrollo e innovación ICARO” (Código: 8.06/5.58.3757); Funding company/institution: IHMAN, SLL; From: 01/01/2012 to: 31/03/2013; Research leader: González Parada, Eva; Number of researchers: 2; Total amount granted: 46700 €.

“Realización de trabajos de investigación en un proyecto de investigación, desarrollo e innovación titulado ‘HERMES’, a desarrollar en el marco de los incentivos de la Corporación Tecnológica de Andalucía” (Código: 8.06/5.58.3594); Funding company/institution: IHMAN, SLL; From: 01/12/2010 to: 31/03/2011; Research leader: González Parada, Eva; Number of researchers: 2; Total amount granted: 49000 €