Situación profesional actual

María Bermúdez Edo. Profesor Titular de Universidad

LISTADO DE APORTACIONES MÁS RELEVANTES (últimos 10 años)-

Publicaciones más importantes en libros y revistas con "peer review".

1. Durán-López, A., Bolaños-Martinez, D., Almahmoud, Z., Pravin, C., De, S., & Bermudez-Edo, M. (2025). Route Optimization in Smart Villages: A Graph Neural Network Approach. *IEEE Internet of Things Journal*. **JCR Q1 (D1)**.
2. Bolaños-Martinez, D., Durán-López, A., Garrido, J. L., Delgado-Márquez, B., & Bermudez-Edo, M. (2025). SASD: Self-Attention for Small Datasets—A case study in smart villages. Expert Systems with Applications, 271, 126245. **JCR Q1 (D1)**.
3. Garcia-Moreno, F. M., Badenes-Sastre, M., Expósito, F., Rodriguez-Fortiz, M. J., & Bermudez-Edo, M. (2025). EEG headbands vs caps: How many electrodes do I need to detect emotions? The case of the MUSE headband. Computers in Biology and Medicine, 184, 109463. **JCR Q1 (D1)**. GS**: 4**
4. Gungormus, D. B., Garcia-Moreno, F. M., Bermudez-Edo, M., Sánchez-Bermejo, L., Garrido, J. L., Rodríguez-Fórtiz, M. J., & Pérez-Mármol, J. M. (2024). A semi-automatic mHealth system using wearable devices for identifying pain-related parameters in elderly individuals. International Journal of Medical Informatics, 105371. **JCR Q1**. GS**: 8**
5. Bolaños-Martinez, D., Bermudez-Edo, M., & Garrido, J. L. (2024). Clustering pipeline for vehicle behavior in smart villages. Information Fusion, 104, 102164. **JCR Q1 (D1).** GS**: 14**
6. De, S., **Bermudez-Edo**, M., Xu, H., & Cai, Z. (2022). Deep Generative Models in the Industrial Internet of Things: a Survey. IEEE Transactions on Industrial Informatics 18(9) 5728-5737. **JCR Q1 (D1).** Citas GS**: 93**
7. Garcia-Moreno, F. M., **Bermudez-Edo**, M., Rodríguez-García, E., Pérez-Mármol, J. M., Garrido, J. L., & Rodríguez-Fórtiz, M. J. (2022). A machine learning approach for semi-automatic assessment of IADL dependence in older adults with wearable sensors. International Journal of Medical Informatics, 157, 104625. Pp:0-15. **JCR Q1.** Citas GS**: 31**
8. Elsaleh, T., Enshaeifar, S., Rezvani, R., Acton, S. T., Janeiko, V., & **Bermudez-Edo**, M. (2020). IoT-Stream: A Lightweight Ontology for Internet of Things Data Streams and Its Use with Data Analytics and Event Detection Services. Sensors, 20(4), 953 pp:0-22. **JCR Q1.** Citas GS**: 114**
9. Kolozali, S. (AC), **Bermudez-Edo**, M, Davar, N. …Tonjes, R. (/2) (2018). Observing the Pulse of a City: A Smart City Framework for Real-time Discovery, Federation, and Aggregation of Data Streams. IEEE Internet of Thing Journal. 6(2) 2651-2668. **JCR:Q1 (D1).** Citas GS**: 80**
10. **Bermudez-Edo**, M, Barnaghi, P., Moessner, K. (2018). Analysing Real World Data Streams with Spatio-Temporal Correlations: Entropy vs. Pearson Correlation. Automation in Construction 88C (2018) pp. 87-100**. JCR Q1 (D1).** Citas GS**: 129**
11. **Bermudez-Edo**, M. Elsaleh, T., Barnaghi, P., Taylor, K. (2017). IoT-Lite: A Lightweight Semantic Model for the Internet of Things and its Use with Dynamic Semantic. Personal and Ubiquitous Computing. Springer 2017, 21 (3), pp 475–487. **JCR Q2**. Citas GS**: 178**
12. Kolozali, S., Puschmann, D., **Bermudez-Edo**, M., & Barnaghi, P. (2016). On the Effect of Adaptive and Non-Adaptive Analysis of Time-Series Sensory Data. IEEE Internet of Thing Journal 3 (6), 1084. **JCR:Q1 (D1)**. Citas GS**: 42**

Proyectos o líneas de investigación en los que ha participado, *indicando su contribución personal. En el caso de investigadores jóvenes, indicar lineas de investigación de las que hayan sido responsables .*

1. OnTheEdge: A Health Platform with services on the continuum computing to detect stress and anxiety in the elderly. Spanish Ministry of Science and Innovation (Agencia Estatal de Investigación).

Project ref. PID2023-149185OB-I00. Principal Investigators: Bermúdez-Edo, María y Rodriguez-Fortiz, María José. 2024-2027. 156.375 €.

2. Análisis y Gestión de Movilidad en Parques Nacionales de Montaña: Utilización de Machine Learning para Sostenibilidad contra el Cambio Climático. Proyectos Plan Operativo FEDER Andalucía 2021-2027. Project ref. C-SEJ-128-UGR23. Co-Principal Investigators: Delgado-Márquez, Blanca; Bermúdez-Edo, María. 2024-2027. 18.000 €.
3. MIoT-Health: Microservice-oriented design of IoT systems for a holistic and ecological assessment in eHealth - A case study of active and healthy ageing. Spanish Ministry of Science and Innovation (Agencia Estatal de Investigación). Project ref. PID2019-109644RB-I00. Co-Principal Investigators: Garrido Bullejos, José Luis; Bermúdez-Edo, María (Universidad de Granada). 2019-2023. 70.000 €.
4. LifeWatch-ERIC (EU funded project): "Thematic Center on Mountain Ecosystem & Remote sensing, Deep learning-AI e-Services: University of Granada-Sierra Nevada". 2021-2023. Lifewatch-2019-10UGR-01_WP-6.3. 304.162 €.
5. EU H2020 FIESTA: Federated Interoperable Semantic IoT/cloud Testbeds and Applications (2015-2018). 2015-2018. 5.132.584 EUR.
6. EU FP7-2012-ICT-FI collaborative Project, FI-Core/FIWARE: Future Internet Core Platform Extension, Availability and Sustainability (2014-2016). 23.000.000 EUR.
7. EU FP7 CityPulse: Real-Time IoT Stream Processing and Large-scale Data Analytics for Smart City Applications. 2013-2016. 2.500.000 EUR.
8. EU FP7 Internet of Things Environment for Service Creation and Testing (IoTest), Small or medium-scale focused research project (STREP) (2011-2014).. 2 445 000 EUR.
9. TIN2016-79484-R. Proyectos de Investigación del Plan Nacional. FRAMADAPT-HEALTH: Un framework basado en plataformas móviles/wearables para el desarrollo de sistemas adaptativos de soporte a la toma de decisiones en salud. Programa Estatal de Investigación, Desarrollo e Innovación Orientada a los Retos de la Sociedad. Garrido Bullejos, José Luis; Rodríguez-Fórtiz, Mª José (Universidad de Granada). 2016-2019. 99.200 €.
10. TIN-2012. Técnicas y métodos avanzados para la adaptación de software sensible al contexto. (universidad de granada- ministerio de economía y hacienda). Garrido Bullejos, José Luis 2012-2015. 85560 EUR.