

Prof. Dr. Jose M. Jimenez

Departamento de Comunicaciones,
Escuela Politécnica Superior de Gandía,
Universitat Politècnica de València,
Gandia (València), Spain

Prof. Dr. -RVp 0 -LPpQH] is an accomplished researcher with a multidisciplinary career. She holds a Bachelor's Degree in Environmental Sciences, a Master's Degree in Environmental Assessment and Monitoring of Marine and Coastal Ecosystems (graduating with honors), and a Ph.D. in Science and Technology of Animal Production from the Universitat Politècnica de València (UPV), for which she received the university's extraordinary award. She is now Assistant Professor at Universidad Politécnica de Madrid. Her research focuses on remote sensing, sensor development, and sustainable agriculture, with particular emphasis on monitoring urban green areas and crops through advanced technologies such as drones, satellites, and in-situ sensors. This innovative approach has led to more than 70 journal publications, more than 60 indexed in JCR, including 20 in Q1 journals and 7 in the top decile. Some of her most notable works include *"Remote Sensing Devices as Key Methods in the Advanced Turfgrass Phenotyping under Different Water Regimes"* (Agricultural Water Management, IF 6.7) and *"Edge Detection for Weed Recognition in Lawns"* (Computers and Electronics in Agriculture, IF 5.5). She has also explored the integration of UAVs and wireless sensor networks for environmental monitoring, as reflected in *"The Combined Use of Remote Sensing and Wireless Sensor Networks to Estimate Soil Moisture in Golf Courses"* (Applied Sciences, IF 2.5) and *"A Comprehensive Survey of Drones for Turfgrass Monitoring "* (Drones, IF 4.4) and.

Her research contributions extend beyond publications. Dr. Parra has actively participated in national and European research projects addressing sustainable water management, innovative agricultural technologies, and environmental monitoring. She has led efforts in designing sensors, including optical and electromagnetic devices, to measure critical water and soil parameters, advancing applications in irrigation, salinity management, and turbidity detection. These technologies have been applied in major initiatives, supported by three European and three national funding projects, and fostered collaboration with institutions such as IMIDRA and agro-industrial enterprises. Her expertise has driven innovation and strengthened the interface between science and industry.

Of particular note is her long-standing association with IARIA and ThinkMind, organizations where she has made significant contributions to advancing research dissemination and scientific collaboration. Dr. Parra has participated as technical and organizing committees in about 100 conferences and has delivered four keynote speeches. She has also been a guest editor for 17 special issues in Q1 and Q2 journals and served as an evaluator for prestigious research awards, including the Sensors 2022 Best PhD Thesis Award. In 2024, she served as general chair of *The First International Conference on Sustainable and Regenerative Farming*.