

1 Publications List

Dr. Carlos A. Osorio Quero

- [1] C. A. O. Quero and J. Martinez-Carranza. “Vision–Language Navigation for Rapid UAV Deployment in Emergency Response”. In: *Computación y Sistemas*. Vol. 30. 3. 2026, pp. 1–14. DOI: [10.1109/CCE67728.2025.1127196x](https://doi.org/10.1109/CCE67728.2025.1127196x).
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- [3] C. A. O. Quero and J. Martinez-Carranza. “An FPGA-Assisted WiFi-CSI Framework for Human Pose Estimation in Search-and-Rescue Environments”. In: *2026 23rd International Conference on Electrical Engineering, Computing Science and Automatic Control (CCE)*. 2026, pp. 1–6. DOI: [10.1109/CCE67728.2025.1127192x](https://doi.org/10.1109/CCE67728.2025.1127192x).
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- [7] C. Osorio Quero, D. Durini, and J. Martinez-Carranza. “ViT-Based Classification and Self-Supervised 3D Human Mesh Generation from NIR Single-Pixel Imaging”. In: *Applied Sciences* 15.11 (2025). ISSN: 2076-3417. DOI: [10.3390/app15116138](https://doi.org/10.3390/app15116138). URL: <https://www.mdpi.com/2076-3417/15/11/6138>.
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Book Chapter

- [40] C. A. Osorio-Quero and J. Martinez-Carranza. “CNN-Quantized Based RF Signal Identification for UAV Disaster Navigation”. In: *Handbook of Intelligent Robots: Theory, Methods and Applications*. Ed. by J. Martinez-Carranza, Z. J. Guzman-Zavaleta, M. A. Negrete-Villanueva, and H. Sossa-Azuela. 1st ed. Boca Raton, FL, USA: CRC Press, 2026. Chap. 20, pp. 340–357. DOI: [10.1201/9781003643456-20](https://doi.org/10.1201/9781003643456-20).
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PhD Thesis

- [43] C. Osorio. “Three-dimensional hyperspectral camera based on near-infrared single-pixel imaging”. PhD thesis. Sept. 2022. DOI: [10.13140/RG.2.2.15604.97923](https://doi.org/10.13140/RG.2.2.15604.97923).

Patents

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