

CV José Carlos Moreno Úbeda

Grupo de Investigación: Ingeniería de Sistemas y Automática, Universidad de Almería

Situación profesional: Catedrático de Universidad

Formación Académica

- Ingeniería Técnica en Informática de Gestión (1991–1994), Universidad de Almería.
- Ingeniería Informática (1994–1996), Universidad de Murcia – Premio Extraordinario Fin de Carrera.

Líneas de investigación

- Robótica
- Control robusto QFT
- Control PID
- Control feedforward
- Control reset.
- Control jerárquico y robusto.

Publicaciones:

- **Optimal Active Disturbance Rejection Control for Second Order Systems**
Smart Agricultural Technology
2024-12 | journal-article
DOI: 10.1016/j.atech.2024.100606
- **Autonomous collaborative mobile robot for greenhouses: Design, development, and validation tests**
Smart Agricultural Technology
2024-12 | Journal article
DOI: [10.1016/j.atech.2024.100606](https://doi.org/10.1016/j.atech.2024.100606)
Contributors: Fernando Cañadas-Aránega; José C. Moreno; José L. Blanco-Claraco; Antonio Giménez; Francisco Rodríguez; Julián Sánchez-Hermosilla

- Feasibility analysis of robots in greenhouses. A case study in European Mediterranean countries**
 Smart Agricultural Technology
 2024-12 | Journal article
 DOI: [10.1016/j.atech.2024.100638](https://doi.org/10.1016/j.atech.2024.100638)
 Contributors: J.C. Moreno; F. Rodríguez; J. Sánchez-Hermosilla; A. Giménez; J.A. Sánchez-Molina
- Soft-sensor based on sliding modes for industrial raceway photobioreactors**
 Biosystems Engineering
 2024-10 | Journal article
 DOI: [10.1016/j.biosystemseng.2024.07.015](https://doi.org/10.1016/j.biosystemseng.2024.07.015)
 Contributors: E. Delgado; J.C. Moreno; E. Rodríguez-Miranda; A. Baños; A. Barreiro; J.L. Guzmán
- Multimodal Mobile Robotic Dataset for a Typical Mediterranean Greenhouse: The GREENBOT Dataset**
 Sensors
 2024-03-14 | Journal article
 DOI: [10.3390/s24061874](https://doi.org/10.3390/s24061874)
 Contributors: Fernando Cañadas-Aránega; Jose Luis Blanco-Claraco; Jose Carlos Moreno; Francisco Rodriguez-Diaz
- Multimodal Mobile Robotic Dataset for a Typical Mediterranean Greenhouse: The GREENBOT Dataset**
 Sensors
 2024-03-14 | Journal article
 DOI: [10.3390/s24061874](https://doi.org/10.3390/s24061874)
 Contributors: Fernando Cañadas-Aránega; Jose Luis Blanco-Claraco; Jose Carlos Moreno; Francisco Rodriguez-Diaz
- Double feedforward compensation for cascade control schemes**
 Sensors
 Computers & Chemical Engineering
 2024-02 | Journal article
 DOI: [10.1016/j.compchemeng.2023.108544](https://doi.org/10.1016/j.compchemeng.2023.108544)
 Contributors: Ángeles Hoyo; José Luis Guzmán; José Carlos Moreno; Tore Hägglund
- Assisted Robots in Therapies for Children with Autism in Early Childhood**
 Sensors
 2024-02-26 | Journal article
 DOI: [10.3390/s24051503](https://doi.org/10.3390/s24051503)

Contributors: Ana Gómez-Espinosa; José Carlos Moreno; Sagrario Pérez-de la Cruz

- **New Tuning Rules of PI+CI Controllers for First-Order Systems**
Actuators
2024-02-11 | Journal article
DOI: [10.3390/act13020067](https://doi.org/10.3390/act13020067)
Contributors: José Carlos Moreno; José González; Ana Navarro; José Luis Guzmán
- **A practical solution to the saturation problem in feedforward control for measurable disturbances**
Control Engineering Practice
2023-10 | Journal article
DOI: [10.1016/j.conengprac.2023.105636](https://doi.org/10.1016/j.conengprac.2023.105636)
Contributors: Ángeles Hoyo; Tore Hägglund; José Luis Guzmán; José Carlos Moreno
- **Evaluation of an Interpolated Controller in an Industrial Photobioreactor**
IEEE Access
2021 | Journal article
DOI: [10.1109/ACCESS.2021.3057031](https://doi.org/10.1109/ACCESS.2021.3057031)
Contributors: J. C. Moreno; P. Mercader; J. L. Guzman; A. Banos; Per-Olof Gutman
- **Robust QFT-Based Feedback Linearization Controller of the Greenhouse Diurnal Temperature Using Natural Ventilation**
IEEE Access
2019 | Journal article
DOI: [10.1109/ACCESS.2019.2916412](https://doi.org/10.1109/ACCESS.2019.2916412)
Contributors: A. Hoyo; J. C. Moreno; J. L. Guzman; F. Rodriguez
- **The Comparison Study of Short-Term Prediction Methods to Enhance the Model Predictive Controller Applied to Microgrid Energy Management**
Energies
2017-06 | Journal article
DOI: [10.3390/en10070884](https://doi.org/10.3390/en10070884)
Contributors: César Hernández-Hernández, Francisco Rodríguez, José Carlos Moreno, Paolo Renato Da Costa Mendes, Julio Elías Normey Rico, José Luis Guzmán

Contribuciones a congresos:

- **Herramienta gráfica de estimación de producción de microalgas en reactores raceway externos alrededor del mundo**
Jornadas de Automática

2024-07-16 | Journal article

DOI: [10.17979/ja-cea.2024.45.10839](https://doi.org/10.17979/ja-cea.2024.45.10839)

Contributors: Jose González Hernández; José Luis Guzmán Sánchez; José Carlos Moreno Úbeda; Francisco Gabriel Acién Fernández

- **Navegación de un robot Ackermann para tareas de transporte en invernaderos mediterráneos con MultiVehicle Simulator (MVSIM)**

Jornadas de Automática

2024-07-15 | Journal article

DOI: [10.17979/ja-cea.2024.45.10753](https://doi.org/10.17979/ja-cea.2024.45.10753)

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