CV José María Maestre Torreblanca

Grupo de Investigación: Automatica y Robotica Industrial
Departamento/Unidad: Ingeniería de Sistemas y Automática
Situación profesional: Catedrático de Universidad

Responsable de los siguientes proyectos/ayudas en la US:

- **Proyecto de investigación:**
  - Control Coalicional Aplicado a la Optimización de Sistemas Ciberfísicos: Ronda 2, Dobles Digitales (PID2020-119476RB-I00)
  - Ampliación Aquacollect H2020 (P18-HO-4713)
  - Gestión eficiente y segura de microrredes para la integración de energías renovables en viviendas usando técnicas de control predictivo. (US-1265917)
  - Control Coalicional Aplicado a la Optimizacion de Sistemas Cíber-Físicos (DPI2017-86918-R)
  - Pharmacontrol (P12-TIC-2400)

- **Ayuda a la investigación:**
  - Ayuda para estancia Control predictivo coalicional en plantas solares (PP2019-12302)
  - Ayuda para asistencia a 53rd IEEE Conference on Decision and Control (PP2014-3741)

Participa en los siguientes proyectos/ayudas en la US:

- **Proyecto de investigación:**
  - Almacenamiento y Gestión de Energía Renovable para el fomento de la participación de pequeños y medianos prosumidores en redes eléctricas inteligentes (AGERAR_plus) (0091_AGERAR_PLUS_6_E - Equipo Trabajo (Solicitud))
  - Infraestructuras científicas para la vigilancia y adaptación al cambio global en Andalucía (INDALO-4) (INDALO-4 - Equipo de Investigación)
  - Diseño y gestión óptima de sistema modular de almacenamiento híbrido basado en baterías y H2 renovable para dotar de flexibilidad a

comunidades energéticas (TED2021-131604B-I00 - Equipo de Investigación)
    - Digital Intelligence for collaborative for Energy managemente in Manufacturing (DENIM) (SI-2032/24/2020 - Investigador)
    - Transporte Turístico Urbano Eléctrico Sostenible (0517_TTUES_6_E - Investigador)
    - Optimal Control of Thermal Solar Energy Systems-OCONTSOLAR (SI-1838/24/2018 - Investigador)
    - Improving Efficiency and Operational Range in Low-Power Unmmanned Vehicles Throug the Use of Hybrid Fuel-Cell-Power Systems (SFPP-985079 - Investigador)
    - Almacenamiento y Gestión de Energías Renovables en Aplicaciones Comerciales y Residenciales - AGERAR (0076_AGERAR_6_E - Investigador)
    - Control Predictivo de Sistemas Energéticos Distribuidos con Fuentes Renovables y Almacenamiento Estacionario y Móvil (DPI2013-46912-C2-1-R - Equipo de Investigación)
    - Dynamic Management of Physically Coupled Systems of Systems (DYMASOS) (FP7-ICT-ICT-2013.3.4-611281 - Investigador)
    - Gestión Óptima de Edificios de Energía Cero (P11-TEP-8129 - Investigador)
    - Técnicas de Control Predictivo para la Gestión Eficiente de Micro-Redes de Energías Renovables (DPI2010-21589-C05-01 - Investigador)
    - Highly-complex and networked control systems (HYCON2) (FP7-ICT-2009-5-257462 - Investigador)
    - Control predictivo en red (DPI2008-05818 - Investigador)
    - Control predictivo de procesos interconectados con modos de operación diversos (DPI2007-66718-C04-01 - Becario)
    - Control y optimización de sistemas híbridos de energías renovables (P07-TEP-02720 - Otro Investigador)
    - Control Predictivo Hibrido de Sistemas de Refrigeracion Solar (EXC/2005/TEP-745 - Investigador)

- **Contrato con empresas (Arts. 68/83 LOU):**
    - Simulador entrenamiento (SR-1376/2015 - Investigador)
    - Dynamic Management of Physically Coupled Systems of Systems (DYMASOS) (SI-1154/2013 - Investigador)

- **Ayuda a la investigación:**
  - Incentivo al Grupo de Investigación TEP-116 (2017/TEP-116 - Investigador)
  - Incentivo al Grupo de Investigación TEP-116 (2011/TEP-116 - Investigador)
  - Incentivo al Grupo de Investigación TEP-116 (2010/TEP-116 - Investigador)
  - Ayuda a la Consolidación del Grupo de Investigación TEP-116 (2009/TEP-116 - Investigador)
  - Ayuda a la Consolidación del Grupo de Investigación TEP-116 (2008/TEP-116 - Investigador)
  - Ayuda a la Consolidación del Grupo de Investigación TEP-116 (2007/TEP-116 - Investigador)

Publicaciones:

- **Libros**
  - Escaño González, Juan Manuel, Maestre Torreblanca, José:
    Sistemas de Medida y Regulación. Ed. 1ª. - Madrid, España. Ediciones Paraninfo S.A. 2018. 198. ISBN 978-84-283-4055-7

- **Otra participación en Libros**
  - Maestre Torreblanca, José (Editor/a):
    Distributed Model Predictive Control Made Easy. Vol. 69 - Intelligent Systems, Control and Automation: Science and Engineering. Dordrecht Heidelberg New York London. Springer. 2014. 601. ISBN 978-94-007-7005-8
  - González, Ignacio (Editor/a), Fernandez, Mercedes (Editor/a), Maestre Torreblanca, José (Editor/a), Almudena García, Maria del Pilar (Editor/a):
    Service robotics within the Digital Home. Applications and Future prospects. London. Universidad de Sevilla. Escuela Superior de Ingenieros. 2011. 174. ISBN 978-94-0007-1490-8
  - Maestre Torreblanca, José (Editor/a):
    Plan de Renovación de las Metodologías Docentes. Asignaturas en Red 2009-2010. "Fundamentos de Informática". Ed. 1. Sevilla. España. Universidad de Sevilla. 2010. ISBN 978-84-693-8312-4

- **Capítulos en Libros**
  - Fernandez Garcia, Isabel, Velarde, Pablo, Casas Delgado, Marta, Maestre Torreblanca, José:

Advanced demand forecasting and inventory management methods in hospital pharmacy. Pag. 63-80. En: Regionalized Management of Medicine. Translational Bioinformatics. Springer Singapore. 2022. ISBN 978-981-16-7893-6

- Tian, X., Negenborn, R.r., Van Over Loop, P.j., Maestre Torreblanca, José, Mostert, E.:
  Model Predictive Control for Incorporating Transport of Water and Transport over Water in de Dry Season. Vol. 58. Pag. 191-210. En: Transport of Water versus Transport over Water. Exploring the Dynamic Interplay of Transport and Water.. Springer. 2015. ISBN 978-3-319-16132-7

- Maestre Torreblanca, José, Cano, G., Agudo Peregrina, A.f.:
  Capítulo 16: Análisis del Sector domótico y su entorno en España. Vol. Capitulo 16. Pag. 329-348. En: Domotica para Ingenieros. Paraninfo. 2015. ISBN 978-84-9732-976-7

- Chico, M.j., Maestre Torreblanca, José:
  Capítulo 1: X-10. Vol. Capítulo 1. Pag. 3-14. En: Domotica para Ingenieros. Paraninfo. 2015. ISBN 978-84-9732-976-7

- De la Pinta, J.r., Maestre Torreblanca, José, Jurado Flores, Isabel, Muñoz de la Peña Sequedo, David, Fernández Camacho, Eduardo:
  Capítulo 14: UPNP. Vol. capitulo 14. Pag. 295-312. En: Domotica para Ingenieros. Paraninfo. 2015. ISBN 978-84-9732-976-7

- De la Pinta, Javier, Maestre Torreblanca, José, Jurado Flores, Isabel, Muñoz de la Peña Sequedo, David:
  Capítulo 15: Integración de Robots mediante UPnP. Vol. capitulo 15. Pag. 313-328. En: Domotica para Ingenieros. Paraninfo. 2015. ISBN 978-84-9732-976-7

- Maestre Torreblanca, José, Muros, Francisco Javier, Fele, Filiberto, Muñoz de la Peña Sequedo, David, Fernández Camacho, Eduardo:
  Chapter 25. - Distributed MPC based on a Team Game. Pag. 407-420. En: Distributed Model Predictive Control Made Easy. Vol. 69 - Intelligent Systems, Control and Automation: Science and Engineering. Dordrecht Heidelberg New York London. Springer. 2014. 601. ISBN 978-94-007-7005-8

- Zafra Cabeza, Ascensión, Maestre Torreblanca, José:
  A Hierarchical Distributed MPC Approach: A Practical Implementation. Vol. 69. Pag. 451-464. En: Distributed Model Predictive Control Made Easy. Vol. 69 - Intelligent Systems, Control and Automation: Science and Engineering. Dordrecht Heidelberg New York London. Springer. 2014. 601. ISBN 978-94-007-7005-8

- Maestre Torreblanca, José, Muñoz de la Peña Sequedo, David, Fernández Camacho, Eduardo:
  Distributed MPC Based on Agent Negotiation. Vol. 69. Pag. 465-477. En: Distributed Model Predictive Control Made Easy. Vol. 69 - Intelligent Systems, Control and Automation: Science and Engineering. Dordrecht Heidelberg New York London. Springer. 2014. 601. ISBN 978-94-007-7005-8

- Negenborn, R.r., Maestre Torreblanca, José:
  Approaches for Distributed MPC Made Easy. Vol. 69. Pag. 1-37. En: Distributed Model Predictive Control Made Easy. Vol. 69 - Intelligent Systems, Control and Automation: Science and Engineering. Dordrecht Heidelberg New York London. Springer. 2014. 601. ISBN 978-94-007-7005-8

- Fernádez, Mercedes, Maestre Torreblanca, José, Ramírez de la Pinta, Javier:
  Integration of Service Robots in the Smart Home. (Capitulo 4). Vol. 53. Pag. 115-142. En: SERVICE ROBOTICS WITHIN THE DIGITAL HOME. Applications and Future Prospects. (1st Edition). 2011. ISBN 978-94-007-1490-8

- **Publicaciones en Revistas**
  - Hassan, Ahmen, Ruiz Moreno, Sara, Domínguez Frejo, Jose Ramon, Maestre Torreblanca, José, Fernández Camacho, Eduardo:
    Neural-Network Based MPC for Enhanced Lateral Stability in Electric Vehicles. En: IEEE Access. 2024. Vol. 12. Pag. 23565-23278. 10.1109/Access.2024.3362236

  - Ranjbar, Roza, Segovia, Pablo, Duviella, Eric, Maestre Torreblanca, José, Fernández Camacho, Eduardo:
    Digital twin of Calais canal with model predictive controller: a simulation on a real database. En: Journal of Water Resources Planning and Management. 2024. Vol. 150. Núm. 5. https://doi.org/10.1061/JWRMD5.WRENG-6266

  - Velarde, Pablo, Zafra Cabeza, Ascensión, Márquez , Juan José, Maestre Torreblanca, José, Bordons Alba, Carlos:
    Stochastic MPC-Based Reconfiguration Approaches for Microgrids. En: IEEE Transactions on Control Systems Technology. 2024. Vol. 32. Núm. 3. Pag. 891-904. https://doi.org/10.1109/TCST.2023.3342135

  - Sivianes, Manuel, Maestre Torreblanca, José, Zafra Cabeza, Ascensión, Bordons Alba, Carlos:
    Blockchain for energy trading in energy communities using stochastic and distributed model predictive control. En: IEEE Transactions on Control Systems Technology. 2023. Vol. 31. Núm. 5. Pag. 2132-2145. 10.1109/Tcst.2023.3291635

  - Sivianes, Manuel, Velarde, Pablo, Zafra Cabeza, Ascensión, Maestre Torreblanca, José, Bordons Alba, Carlos:
    Uncertainty management in peer-to-peer energy trading based on blockchain and distributed model predictive control. En: IFAC-PapersOnLine. 2023. Vol. 56. Núm. 2. Pag. 7102-7107. https://doi.org/10.1016/j.ifacol.2023.10.579

  - Sivianes, Manuel, Bordons Alba, Carlos, Zafra Cabeza, Ascensión, Maestre Torreblanca, José:
    Uncertainty management in peer-to-peer energy trading based on blockchain and distributed model. En: IFAC-PapersOnLine. 2023. Vol. 56. Núm. 2. Pag. 7102-7107.

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  Robust data-based predictive control of systems with parametric uncertainties: Paving the way for cooperative learning. En: Journal of Process Control. 2023. Vol. 132. Núm. 12. https://doi.org/10.1016/j.jprocont.2023.103109

- García, Javier, Hanif, M., Hatanaka, T., Maestre Torreblanca, José, Fernández Camacho, Eduardo:
  Predictive receding-horizon multi-robot task allocation applied to the mapping of direct normal irradiance in a thermosolar power plant. En: Solar Energy. 2023. Vol. 263. Núm. 111911. Pag. 1-13. https://doi.org/10.1016/j.solener.2023.111911

- Chanfreut, Paula, Maestre Torreblanca, José, Gallego Len, Antonio, Annaswamy, Anuradha M., Fernández Camacho, Eduardo:
  Clustering-based model predictive control of solar parabolic trough plants. En: Renewable Energy. 2023. Vol. 216. Núm. 118978. Pag. 1-10. https://doi.org/10.1016/j.renene.2023.118978

- Sanchez, Ana, Maestre Torreblanca, José, Trodden, P.a., Fernández Camacho, Eduardo:
  A bound on the existence of the maximum jointly invariant set of input-coupled systems. En: IEEE Control Systems Letters. 2023. Vol. 7. Pag. 2293-2298. https://doi.org/10.1109/LCSYS.2023.3286778

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  Multi-Scenario Model Predictive Control for Greenhouse Crop Production Considering Market Price Uncertainty. En: IEEE Transactions on Automation Science and Engineering. 2023. 10.1109/Tase.2023.3271896

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  Coalitional model predictive control of parabolic-trough solar collector fields with population-dynamics assistance. En: Applied Energy. 2023. Vol. 334. Núm. 120740. Pag. 1-11. https://doi.org/10.1016/j.apenergy.2023.120740

- Masero, Eva, Ruiz Moreno, Sara, Domínguez Frejo, Jose Ramon, Maestre Torreblanca, José, Fernández Camacho, Eduardo:
  A fast implementation of coalitional model predictive controllers based on machine learning: Application to solar power plants. En: Engineering Applications Of Artificial Intelligence. 2023. Vol. 118. Núm. 105666. Pag. 1-10. https://doi.org/10.1016/j.engappai.2022.105666

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- Muros, Francisco Javier, Maestre Torreblanca, José:
  Coalitional Games for Networked Controllers with Constraints on Semivalues: A Randomized Design Approach. En: Journal of The Franklin Institute. 2022. Vol. 359. Núm. 17. Pag. 9836-9859. https://doi.org/10.1016/j.jfranklin.2022.08.048

- Sanchez, Ana, Chanfreut, Paula, Maestre Torreblanca, José, Fernández Camacho, Eduardo:
  Coalitional Model Predictive Control with Different Inter-Agent Interaction Modes. En: European Journal Of Control. 2022. Vol. 68. Núm. 100676. https://doi.org/10.1016/j.ejcon.2022.100676

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  Cyber-security in networked and distributed model predictive control. En: Annual Reviews in Control. 2022. Vol. 53. Pag. 338-355. https://doi.org/10.1016/j.arcontrol.2021.10.005

- Araúz, Teresa, Maestre Torreblanca, José, A., Cetinkaya,, Stoica Maniu, Cristica:
  A Tree-Based Multi-Scenario Approach to Networked MPC under Packet Losses and Disturbances. En: IFAC-PapersOnLine. 2022. Vol. 55. Núm. 16. Pag. 296-301. https://doi.org/10.1016/j.ifacol.2022.09.040

- Karimi Avargani, Habib, Mehdy Hashemy Shahdany, S., Kamrani, Kazem, Maestre Torreblanca, José, Ebrahim Hashemi Garmdareh , S., et. al.:
  Prioritization of surface water distribution in irrigation districts to mitigate crop yield reduction during water scarcity. En: Agricultural Water Management. 2022. Vol. 269. Núm. 107653. https://doi.org/10.1016/j.agwat.2022.107653

- Muros, Francisco Javier, Saracho, Daniel, Maestre Torreblanca, José:
  Improving supply quality in distribution power networks: A game-theoretic planning approach. En: IEEE Transactions on Control of Network Systems. 2022. Vol. 213. Núm. 108666. https://doi.org/10.1016/j.epsr.2022.108666

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- Askari Fard, Ardalan, Mehdy Hashemy Shahdany, S., Javadi, Saman, Maestre Torreblanca, José:
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- Maestre Torreblanca, José, Chanfreut, Paula, García, Javier, Masero, Eva, Inoue, Masaki, et. al.:
  Control predictivo de sistemas ciberfísicos. En: Revista Iberoamericana de Automática e Informática Industrial. 2022. Vol. 19. Pag. 1-12. https://doi.org/10.4995/riai.2021.15771

- Chanfreut, Paula, Maestre Torreblanca, José, Ferramosca, Antonio, Muros, Francisco Javier, Fernández Camacho, Eduardo:
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  Market-based clustering of model predictive controllers for maximizing collected energy by parabolic-trough solar collector fields. En: Applied Energy. 2022. Vol. 306. Núm. 117936. Pag. 1-12. https://doi.org/10.1016/j.apenergy.2021.117936

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  Spatial irradiance estimation in a thermosolar power plant by a mobile robot sensor network. En: Solar Energy. 2021. Vol. 220. Pag. 735-744. https://doi.org/10.1016/j.solener.2021.03.038

- Maestre Torreblanca, José, Velarde, Pablo, Ishii, Hideaki, Negenborn, Ruddy:
  Scenario-based defense mechanism against vulnerabilities in Lagrange-based DMPC. En: Control Engineering Practice. 2021. Vol. 114. https://doi.org/10.1016/j.conengprac.2021.104879

- Mehdi Yaltaghian, Khiabani, Shahdany, Seied Mehdy Hashemy, Hassani, Yousef, Maestre Torreblanca, José:
  Introducing an economic agricultural water distribution in a hyper-arid region: a case study in Iran. En: Journal of Hydroinformatics. 2021. Vol. 23. Núm. 3. Pag. 548-566. 10.2166/Hydro.2021.008

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Resilient distributed model predictive control for energy management of interconnected microgrids. En: Optimal Control Applications & Methods. 2020. Vol. 41. Núm. 1. Pag. 140-169. DOI: 10.1002/oca.2534

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