

CV JOSÉ MARÍA MAESTRE TORREBLANCA

Grupo de Investigación: [Automatica y Robotica Industrial](#)
Departamento/Unidad: [Ingeniería de Sistemas y Automática](#)
Situación profesional: Catedrático/a 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 Optimización 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 management 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-OCNTSOLAR ([SI-1838/24/2018](#) - Investigador)
 - Improving Efficiency and Operational Range in Low-Power Unmanned Vehicles Through 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 Híbrido de Sistemas de Refrigeración 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.i., 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., Aqudo Peregrina, A.f.:
Capítulo 16: Análisis del Sector domótico y su entorno en España. Vol. Capítulo 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. capítulo 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. capítulo 15. Pag. 313-328. *En: Domotica para Ingenieros.* Paraninfo. 2015. ISBN 978-84-9732-976-7

Maestre Torreblanca, José, Muros Ponce, 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

Fernández, Mercedes, Maestre Torreblanca, José, Ramírez de la Pinta, Javier:
Integration of Service Robots in the Smart Home. (Capítulo 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

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. *En: IEEE Control Systems Letters.* 2023. Vol. 7. Pag. 2293-2298.
<https://doi.org/10.1109/LCSYS.2023.3286778>

García Mañas, Francisco, Rodríguez Díaz, Francisco, Berenquel, Manuel, Maestre Torreblanca, José:
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

Sanchez, Ana, Chanfreut, Paula, Maestre Torreblanca, José, Fernández Camacho, Eduardo:
Robust coalitional model predictive control with negotiation of mutual interactions. *En: Journal of Process Control.* 2023. Vol. 123. Pag. 64-75. <https://doi.org/10.1016/j.jprocont.2023.01.017>

Sanchez, Ana, Martínez Piazuelo, Juan, Maestre Torreblanca, José, Ocampo Martínez, Carlos, Fernández Camacho, Eduardo, et. al.:
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>

García, Javier, Muros Ponce, Francisco Javier, Maestre Torreblanca, José, Fernández Camacho, Eduardo:
Multi-robot task allocation clustering based on game theory. *En: Robotics and Autonomous Systems.* 2023. Vol. 161. Núm. 104314. Pag. 1-11. <https://doi.org/10.1016/j.robot.2022.104314>

Muros Ponce, 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>

Araúz, Teresa, Chanfreut, Paula, Maestre Torreblanca, José:
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 Ponce, 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.epr.2022.108666>

Shahverdi , Kazem, Maestre Torreblanca, José:
Gray Wolf Optimization for Scheduling Irrigation Water. *En: Journal of Irrigation and Drainage Engineering*. 2022. Vol. 148-7. Núm. 04022020. Pag. 1-12. [http://doi.org/10.1061/\(ASCE\)IR.1943-4774.0001688](http://doi.org/10.1061/(ASCE)IR.1943-4774.0001688)

Shahverdi, Kazem, Alamiyan Harandi , Farinaz, Maestre Torreblanca, José:
Double Q-PI architecture for Smart model-free control of canals. *En: Computers and Electronics in Agriculture*. 2022. Vol. 197. Núm. 106940. Pag. 1-16. <https://doi.org/10.1016/j.compag.2022.106940>

Chanfreut, Paula, Maestre Torreblanca, José, Hatanaka, Takeshi, Fernández Camacho, Eduardo:
Fast Clustering for Multi-agent Model Predictive Control. *En: IEEE Transactions on Control of Network Systems*. 2022. Vol. 9. Núm. 3. Pag. 1544-1555. <http://doi.org/10.1109/TCNS.2022.3158745>

Askari Fard, Ardalán, Mehdy Hashemy Shahdany, S., Javadi, Saman, Maestre Torreblanca, José:
Developing an automatic conjunctive surface-groundwater operating system for sustainable agricultural water distribution. *En: Computers and Electronics in Agriculture*. 2022. Vol. 194. Núm. 106774. Pag. 1-11. <https://doi.org/10.1016/j.compag.2022.106774>

Araúz, Teresa, Maestre Torreblanca, José, Romagnoli, R., Sinopoli, B., Fernández Camacho, Eduardo:
A Linear Programming Approach to Computing Safe Sets for Software Rejuvenation. *En: IEEE Control Systems Letters*. 2022. Vol. 6. Núm. 9459778. Pag. 1214-1219. [10.1109/Lcsys.2021.3090448](https://doi.org/10.1109/Lcsys.2021.3090448)

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>

Masero, Eva, Maestre Torreblanca, José, Fernández Camacho, Eduardo:
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>

García, Javier, Maestre Torreblanca, José, Fernández Camacho, Eduardo:
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](https://doi.org/10.2166/Hydro.2021.008)

Hara, Keita, Inoue, Masaki, Maestre Torreblanca, José:
Data-driven human modeling: quantifying personal tendency toward laziness. *En: IEEE Control Systems*

Letters. 2021. Vol. 5. Núm. 4. Pag. 1219-1224. 10.1109/Lcsys.2020.3023337

Shahverdi, Kazem, Loni, Reyhaneh, Maestre Torreblanca, José, Najafi, Gholamhassan:
CFD numerical simulation of Archimedes screw turbine with power output analysis. *En: Ocean Engineering*. 2021. Vol. 231. Núm. 108718. Pag. 1-8. <https://doi.org/10.1016/j.oceaneng.2021.108718>

Chanfreut, Paula, Maestre Torreblanca, José, Ferramosca, Antonio, Muros Ponce, Francisco Javier, Fernández Camacho, Eduardo:
Distributed Model Predictive Control for Tracking: A Coalitional Clustering Approach. *En: IEEE Transactions on Automatic Control*. 2021. Vol. EARLY. Núm. ACCESS. Pag. 1-8. 10.1109/Tac.2021.3133486

Chanfreut, Paula, Maestre Torreblanca, José, Muros Ponce, Francisco Javier, Fernández Camacho, Eduardo:
Clustering switching regions for feedback controllers: A convex approach. *En: IEEE Transactions on Control of Network Systems*. 2021. Vol. 8. Núm. 4. Pag. 1730-1742. 10.1109/Tcns.2021.3084049

Masero, Eva, Maestre Torreblanca, José, Ferramosca, Antonio, Francisco, Mario, Fernández Camacho, Eduardo:
Robust coalitional model predictive control with predicted topology transitions. *En: IEEE Transactions on Control of Network Systems*. 2021. Vol. 8. Núm. 4. Pag. 1869-1880. 10.1109/Tcns.2021.3088806

Masero, Eva, Francisco, Mario, Maestre Torreblanca, José, Revollar, Silvana, Vega, Pastora:
Hierarchical distributed model predictive control based on fuzzy negotiation. *En: Expert Systems With Applications*. 2021. Vol. 176. Núm. 114836. Pag. 1-13. <https://doi.org/10.1016/j.eswa.2021.114836>

Chanfreut, Paula, Maestre Torreblanca, José, Fernández Camacho, Eduardo:
A survey on clustering methods for distributed and networked control systems. *En: Annual Reviews in Control*. 2021. <https://doi.org/10.1016/j.arcontrol.2021.08.002>

Fernández García, Maria Isabel, Chanfreut, Paula, Jurado Flores, Isabel, Maestre Torreblanca, José:
A Data-based Model Predictive Decision Support System for Inventory Management in Hospitals. *En: IEEE Journal of Biomedical and Health Informatics*. 2021. Vol. 25. Núm. 6. Pag. 2227-2237. 10.1109/Jbhi.2020.3039692

Masero, Eva, Domínguez Frejo, Jose Ramon, Maestre Torreblanca, José, Fernández Camacho, Eduardo:
A light clustering model predictive control approach to maximize thermal power in solar parabolic-trough plants. *En: Solar Energy*. 2021. Vol. 214. Pag. 531-541. <https://doi.org/10.1016/j.solener.2020.11.056>

Chanfreut, Paula, Maestre Torreblanca, José, Fernández Camacho, Eduardo:
Coalitional Model Predictive Control on Freeways Traffic Networks. *En: IEEE Transactions on Intelligent Transportations Systems*. 2021. Vol. 22. Núm. 1. Pag. 6772-6783. 10.1109/Tits.2020.2994772

Masero, Eva, Fletscher, Luis A., Maestre Torreblanca, José:
A Coalitional Model Predictive Control for the Energy Efficiency of Next-Generation Cellular Networks. *En: Energies*. 2020. Vol. 13. Núm. 24. Pag. 1-19. doi:10.3390/en13246546

Myo Lin, Nay, Tian, Xin, Rutten, Martine, Abraham, Edo, Maestre Torreblanca, José, et. al.:
Multi-Objective Model Predictive Control for Real-time Operation of a Multi-Reservoir System. *En: Water*. 2020. Vol. 12. Núm. 7. Pag. 1-21. 10.3390/w12071898

Hoffmann, Melanie, Chamorro, Harold R., Lotz, Marc René, Maestre Torreblanca, José, Rouzbehi, Kumars, et. al.:
Grid Code-Dependent Frequency Control Optimization in Multi-Terminal DC Networks. *En: Energies*. 2020. Vol. 13. Núm. 24. Pag. 1-21. <http://doi.org/10.3390/en13246485>

Yaltaqhian Khiabani, M., Hashamy Shahadany, S.m., Maestre Torreblanca, José, Stepanian, R.:
Potential assessment of non-automatic and automatic modernization alternatives for the improvement of water distribution supplied by surfacewater resources: A case study in Iran. *En: Agricultural Water Management*. 2020. Vol. 230. Núm. 105964. Pag. 1-12. 10.1016/j.agwat.2019.105964

Araúz, Teresa, Maestre Torreblanca, José, Tian, Xin, Guan, Guanghua:
Design of PI Controllers for Irrigation Canals based on Linear Matrix Inequalities. *En: Water*. 2020. Vol. 12. Núm. 3. Pag. 1-17. doi:10.3390/w12030855

Rodriguez, L. P., Maestre Torreblanca, José, Fernández Camacho, Eduardo, Sanchez, M.c.:
Decentralized ellipsoidal state estimation for linear model predictive control of an irrigation canal. *En: Journal of Hydroinformatics*. 2020. Vol. 22. Núm. 3. Pag. 1-14. doi: 10.2166/hydro.2020.150

Rodríguez, L.p., Maestre Torreblanca, José, Sánchez, M.c.:
Decentralized ellipsoidal state estimation for linear model predictive control of an irrigation. *En: Journal of Hydroinformatics*. 2020. Vol. 22. Núm. 3. Pag. 593-605. <https://doi.org/10.2166/hydro.2020.150>

Barkhordaria, S., Hashemy Shahadanya, S.m., Taghvaeianb, S., Firoozfarc, A.r., Maestre Torreblanca, José:

Reducing losses in earthen agricultural water conveyance and distribution systems by employing automatic control systems. *En: Computers and Electronics in Agriculture*. 2020. Vol. 168. Pag. 105-122. <https://doi.org/10.1016/j.compag.2019.105122>

Ananduta, Wicak, Maestre Torreblanca, José, Ocampo Martinez, Carlos:

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

Zafra Cabeza, Ascensión, Velarde, Pablo, Maestre Torreblanca, José:

Multicriteria optimal operation of a microgrid considering risk analysis, renewable resources, and model predictive control. *En: Optimal Control Applications & Methods*. 2020. Vol. 41. Núm. 1. Pag. 94-106. 10.1002/oca.2525

Shahverdi, Kazem, Maestre Torreblanca, José, Alamiyan Harandi, Farinaz, Tian, Xin:

Generalizing Fuzzy SARSA Learning for Real-Time Operation of Irrigation Canals. *En: Water*. 2019. Vol. 12. Núm. 7. Pag. 1-18. 10.3390/w120718983

Velarde, Pablo, Tian, X., Sadowska, A.d., Maestre Torreblanca, José:

Scenario-Based Hierarchical and Distributed MPC for Water Resources Management with Dynamical Uncertainty. *En: Water Resources Management*. 2019. Vol. 33. Pag. 677-696. <https://link.springer.com/article/10.1007%2Fs11269-018-2130-2>

Tian, Xin, Guo, Yuxue, Negenborn, Rudy R., Wei, Lingna, Myo Lin, Nay, et. al.:

Multi-Scenario Model Predictive Control Based on Genetic Algorithms for Level Regulation of Open Water Systems under Ensemble Forecasts. *En: Water Resources Management*. 2019. Pag. 3025-3040. <https://doi.org/10.1007/s11269-019-02284-x>

Hashemy Shahdanya, S.m., Taghvaeianb, S., Maestre Torreblanca, José, Firoozfard, A.r.:

Developing a centralized automatic control system to increase flexibility of water delivery within predictable and unpredictable irrigation water demands. *En: Computers and Electronics in Agriculture*. 2019. Vol. 163. Pag. 1-13. <https://doi.org/10.1016/j.compag.2019.104862>

Fletscher, Luis A., Suárez, Luis A., Grace, David, Valencia Peroni, Catalina, Maestre Torreblanca, José:

Energy-Aware Resource Management in Heterogeneous Cellular Networks With Hybrid Energy Sources. *En: IEEE Transactions on Network and Service Management*. 2019. Vol. 16. Núm. 1. Pag. 279-291. 10.1109/Tnsm.2018.2866533

Hassania, Yousef, Mehdy Hashemy Shahdany, Seied, Maestre Torreblanca, José, Zahraiee, Banafsheh, Ghorbanif, Mohammad, et. al.:

An economic-operational framework for optimum agricultural water distribution in irrigation districts without water marketing. *En: Agricultural Water Management*. 2019. Vol. 221. Pag. 348-361. <https://doi.org/10.1016/j.agwat.2019.05.012>

Velarde, Pablo, Maestre Torreblanca, José, Ishii, Hideaki, Negenborn, Ruddy:

Vulnerabilities in Lagrange-based distributed model predictive control. *En: Optimal Control Applications & Methods*. 2018. Vol. 39. Núm. 2. Pag. 601-621. <https://doi.org/10.1002/oca.2368>

Fele, Filiberto, Debada, Ezequiel, Maestre Torreblanca, José, Fernández Camacho, Eduardo:

Coalitional control for self-organizing agents. *En: IEEE Transactions on Automatic Control*. 2018. Vol. 63. Núm. 9. Pag. 2883-2897. 10.1109/Tac.2018.2792301

Maestre Torreblanca, José:

Atomicity and Non-anonymity in Population-like Games for the Energy Efficiency of Hybrid-power HetNets. *En: IEEE Transactions on Network and Service Management*. 2018. Vol. 15. Núm. 4. Pag. 1600-1614. <https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=8520782>

A Fletscher, Luis, Maestre Torreblanca, José, Valencia Peroni, Catalina:

Coalitional planning for energy efficiency of Hetnets powered by hybrid energy resources. *En: IEEE Transactions on Vehicular Technology*. 2018. Vol. 67. Núm. 7. Pag. 6573-6584. <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8302599>

Hashemy Shahdany, S. Mehdy, Firoozfar, Alireza, Maestre Torreblanca, José, Mallakpour, Iman, Taghvaeian, Saleh, et. al.:

Operational performance improvements in irrigation canals to overcome groundwater overexploitation. *En: Agricultural Water Management*. 2018. Vol. 204. Pag. 234-246. <https://doi.org/10.1016/j.agwat.2018.04.014>

Velarde, Pablo, Maestre Torreblanca, José, Ishii, H, Negenborn, R.:

Vulnerabilities in Lagrange-based distributed model predictive control. *En: Optimal Control Applications*

& *Methods*. 2018. Vol. 39. Núm. 2. Pag. 601-621. 10.1002/oca.2368

Muros Ponce, Francisco Javier, Maestre Torreblanca, José, Ocampo Martínez, Carlos, Algaba Durán, Encarnación, Fernández Camacho, Eduardo:

A game theoretical randomized method for large-scale systems partitioning. *En: IEEE Access*. 2018. Vol. 6. Pag. 42245-42263. <http://doi.org/10.1109/ACCESS.2018.2854783>

Maestre Torreblanca, José, Fernández García, María Isabel, Jurado Flores, Isabel:

An application of economic model predictive control to inventory management in hospitals. *En: Control Engineering Practice*. 2018. Vol. 71. Pag. 120-128. <https://doi.org/10.1016/j.conengprac.2017.10.012>

Barreiro Gómez, Julian, Ocampo Martínez, Carlos, Quijano, Nicanor, Maestre Torreblanca, José:

Non-centralized control for flow-based distribution networks: A game-theoretical insight. 2017. Vol. 354. Núm. 14. Pag. 5771-5796. <http://dx.doi.org/10.1016/j.jfranklin.2017.06.021>

Fletscher, Luis A., Maestre Torreblanca, José, Valencia Peroni, Catalina:

An assessment of different user-BS association policies for green HetNets in off-grid environments. *En: Transactions on Emerging Telecommunications Technologies*. 2017. Vol. 28. Núm. 8. Pag. 1-21. <http://onlinelibrary.wiley.com/doi/10.1002/ett.3227/abstract>

Maestre Torreblanca, José, Ishii, Hideaki, Algaba Durán, Encarnación:

Node Aggregation for Enhancing PageRank. *En: IEEE Access*. 2017. Vol. 5. Núm. 2017. Pag. 19799-19811. 10.1109/Access.2017.275070

Trodden, Paul A., Maestre Torreblanca, José:

Distributed predictive control with minimization of mutual disturbances. *En: Automatica*. 2017. Vol. 77. Pag. 31-43. <http://doi.org/10.1016/j.automatica.2016.11.023>

Tian, X., Negenborn, R., Van Overloop, P.j., Maestre Torreblanca, José, Sadowska, A., et. al.:

Efficient multi-scenario Model Predictive Control for water resources management with ensemble streamflow forecasts. *En: Advances in water resources*. 2017. Vol. 109. Pag. 58-68. <https://doi.org/10.1016/j.advwatres.2017.08.015>

Ramírez de la Pinta, Javier, Maestre Torreblanca, José, Jurado Flores, Isabel, Reyes del Cozar, Sergio:

Off the Shelf Cloud Robotics for the Smart Home: Empowering a Wireless Robot through Cloud Computing. *En: Sensors*. 2017. Vol. 17. Núm. 3. Pag. 1-14. 10.3390/s17030525

Mendes, Pulo R.c., Maestre Torreblanca, José, Bordons Alba, Carlos, Normey Rico, Julio E.:

A practical approach for hybrid distributed MPC. *En: Journal of Process Control*. 2017. Vol. 55. Pag. 30-41. <http://dx.doi.org/10.1016/j.jprocont.2017.01.001>

Ishii, Hideaki, Maestre Torreblanca, José:

A PageRank based Coalitional Control Scheme. *En: International Journal of Control, Automation and Systems*. 2017. Vol. 15. Pag. 1-8. <http://dx.doi.org/10.1007/s12555-016-0336-8>

Muros Ponce, Francisco Javier, Algaba Durán, Encarnación, Maestre Torreblanca, José, Fernández Camacho, Eduardo:

The Banzhaf value as a design tool in coalitional control. *En: Systems & Control Letters*. 2017. Vol. 104. Pag. 21-30. <http://dx.doi.org/10.1016/j.sysconle.2017.03.007>

Velarde, Pablo, Valverde Isorna, Luis, Maestre Torreblanca, José, Ocampo Martínez, C., Bordons Alba, Carlos:

On the comparison of stochastic model predictive control strategies applied to a hydrogen-based microgrid. *En: Journal of Power Sources*. 2017. Vol. 343. Pag. 161-173. <http://dx.doi.org/10.1016/j.jpowsour.2017.01.015>

Muros Ponce, Francisco Javier, Algaba Durán, Encarnación, Maestre Torreblanca, José, Fernández Camacho, Eduardo:

Harsanyi Power solutions in coalitional control systems. *En: IEEE Transactions on Automatic Control*. 2017. Vol. ON. Núm. LINE. Pag. 1-13. <http://dx.doi.org/10.1109/TAC.2017.2651642>

Fele, Filiberto, Maestre Torreblanca, José, Fernández Camacho, Eduardo:

Coalitional Control Cooperative GAME theory and control. *En: IEEE control systems*. 2017. Vol. Febrero. Núm. 1. Pag. 53-69. 10.1109/Mcs.2016.2621465

Hashemy Shagdany, S.m., Hasani, Y., Majidi, Y., Maestre Torreblanca, José:

Modern operation of main irrigation canals suffering from water scarcity based on an Economic Perspective. *En: Journal of Irrigation and Drainage Engineering*. 2017. Vol. 143. Núm. 3. Pag. 1-15. 10.1061/(ASCE)Ir.1943-4774.0001024

Muros Ponce, Francisco Javier, Maestre Torreblanca, José, Algaba Durán, Encarnación, Alamo Cantarero, Teodoro, Fernández Camacho, Eduardo:

Networked control design for coalitional schemes using game-theoretic methods. *En: Automatica*. 2017. Vol. 78. Pag. 320-332. <http://dx.doi.org/10.1016/j.automatica.2016.12.010>

M. Grosso, Juan, Velarde, Pablo, Ocampo Martínez, Carlos, Maestre Torreblanca, José:
Stochastic model predictive control approaches applied to drinking water networks. *En: Optimal Control Applications & Methods*. 2016. Vol. 37. Núm. 4. <https://doi.org/10.1002/oca.2269>

Mehdy Hashemy, S., Adib Majd, Esmuell, Firoozfar, Alireza, Puig, V., Maestre Torreblanca, José:
Improving Operation of Main Irrigation Canal Suffering from Inflow Fluctuation within centralized model predictive control systems, case study of Roodasht Canal. *En: Journal of Irrigation and Drainage Engineering*. 2016. Vol. 142. Núm. 11

Jurado Flores, Isabel, Maestre Torreblanca, José, Velarde, Pablo, Ocampo Martínez, Carlos, Fernández, Isabel, et. al.:

Stock Management in Hospital Pharmacy using Chance-Constrained Model Predictive Control. *En: Computers in Biology and Medicine*. 2016. Vol. 72. Pag. 248-255. [10.1016/j.compbimed.2015.11.011](https://doi.org/10.1016/j.compbimed.2015.11.011)

Ocampo Martínez, Carlos, Maestre Torreblanca, José, Schutter, B.:
Time-Varying Scheme for Non-Centralized Model Predictive Control of Large-scale Systems. *En: Mathematical Problems in Engineering*. 2015. Vol. 2015. Pag. 1-14

Romero, Alberto, Millar, Dean, Carvalho, Monica, Maestre Torreblanca, José, Fernández Camacho, Eduardo:

A comparison of the economic benefits of centralized and distributed model predictive control strategies for optimal and sub-optimal mine dewatering system designs. *En: Applied Thermal Engineering*. 2015. Vol. 90. Núm. 5. Pag. 1172-1183. [dx.doi.org/10.1016/j.applthermaleng.2015.01.031](https://doi.org/10.1016/j.applthermaleng.2015.01.031)

Van Overloop, P.j., Maestre Torreblanca, José, D. Sadowska, Anna, Fernández Camacho, Eduardo:
Human-in-the-Loop Model Predictive Control of an Irrigation Canal. *En: IEEE Control Systems Magazine*. 2015. Vol. 35. Núm. 4. Pag. 19-29. [10.1109/Mcs.2015.2427040](https://doi.org/10.1109/Mcs.2015.2427040)

Cano, G., Maestre Torreblanca, José:

Tecnología y sociedad: ¿Por qué no llega el hogar digital?. *En: Informes de la Construcción*. 2015. Vol. 67. Núm. 538. Pag. 154-162. [doi: http://dx.doi.org/10.3989/ic.13.154](https://doi.org/10.3989/ic.13.154)

Hashemy Shahdany, S.m., Maestre Torreblanca, José, Van Overloop, P.j.:

Equitable Water Distribution in Main Irrigation Canals with Constrained Water Supply. *En: Water Resources Management*. 2015. Vol. 29. Núm. 1. Pag. 3316-3328. DOI [10.1007/s11269-015-1000-4](https://doi.org/10.1007/s11269-015-1000-4)

Maestre Torreblanca, José, Ridao Carlini, Miquel Angel, Kozma, A., Savorqnan, C., Diehl, M., et. al.:

A comparison of distributed MPC schemes on a hydro-power plant benchmark. *En: Optimal Control Applications & Methods*. 2015. Vol. 36. Núm. 3. Pag. 306-332. [10.1002/oca.2154](https://doi.org/10.1002/oca.2154)

Fele, Filiberto, Maestre Torreblanca, José, Mehdy Hashemyb, S., Muñoz de la Peña Sequedo, David, Fernández Camacho, Eduardo:

Coalitional model predictive control applied to an irrigation canal -. *En: Journal of Process Control*. 2014. Vol. 24. Núm. 4. Pag. 314-325. [10.1016/j.jprocont.2014.02.005](https://doi.org/10.1016/j.jprocont.2014.02.005)

Negenborn, R.r., Maestre Torreblanca, José:

distributed model. *En: IEEE Control Systems Magazine*. 2014. Vol. 34. Núm. 4. Pag. 87-97. [10.1109/Mcs.2014.2320397](https://doi.org/10.1109/Mcs.2014.2320397)

Maestre Torreblanca, José, Muñoz de la Peña Sequedo, David, Jiménez Losada, A., Algaba Durán, Encarnación, Fernández Camacho, Eduardo:

A coalitional control scheme with applications to cooperative game theory. *En: Optimal Control Applications & Methods*. 2014. Vol. 35. Núm. 5. Pag. 592-608. [10.1002/oca.2090](https://doi.org/10.1002/oca.2090)

Maestre Torreblanca, José, Zafra Cabeza, Ascensión, Fernández García, Maria Isabel, Isla Tejera, Beatriz, Del Prado Llergo, Jose Ramón, et. al.:

Control Predictivo Aplicado a la Gestión de Stocks en Farmacia Hospitalaria: un Enfoque Orientado a la Minimización del Riesgo. *En: Revista Iberoamericana de Automática e Informática Industrial*. 2013. Vol. 10. Pag. 149-158. <http://dx.doi.org/10.1016/j.riai.2013.03.005>

Hashemy, S. M., Monem, M. J., Maestre Torreblanca, José, Van Overloop, P. J.:

Application of an In-Line Storage Strategy to Improve the Operational Performance of Main Irrigation Canals Using Model Predictive Control. *En: Journal of Irrigation and Drainage Engineering*. 2013. Vol. 139. Núm. 8. Pag. 635-644. <http://ascelibrary.org/doi/abs/10.1061/%28ASCE%29IR.1943-4774.0000603>

Ramirez de la Pinta, Javier, Alvarez Romero, Antonio, Maestre Torreblanca, José, González Alonso, Ignacio:

Collaborative Tasks Between Robots Based on the Digital Home Compliant Protocol over UPnP. *En:*

Journal of Intelligent and Robotic Systems. 2013. Vol. On line. Pag. 1-12. DOI 10.1007/s10846-012-9801-7

Borja Pozo, Rafael, Ramírez de la Pinta, Javier, Alvarez Romero, Antonio, Maestre Torreblanca, José:
Integration of service robots in the smart home by means of UPnP: A surveillance robot case study. *En: Robotics and Autonomous Systems*. 2013. Vol. 61. Núm. 2. Pag. 153-160.
doi:10.1016/j.robot.2012.10.005

Gonzalez Alonso, Ignacio, Alvarez Fres, Omar, Alonso Fernández, Alberto, Gómez del Torno, Pablo, Maestre Torreblanca, José:
Towards a new open communication standard between homes and service robots, the DHCompliant case. *En: Robotics and Autonomous Systems*. 2012. Vol. 60. Núm. 6. Pag. 889-900.
doi:10.1016/j.robot.2012.01.006

Maestre Torreblanca, José, Álvarez, Teresa, Alamo Cantarero, Teodoro, Del Rio, Anuar Salim, Luque Sendra, Amalia:
A Probabilistic Approach for Testing Feedback Controllers, with Application to Congestion Control. *En: International Journal of Control, Automation and Systems*. 2012. Vol. 10. Núm. 4. Pag. 835-840

Maestre Torreblanca, José, Isla Tejera, Beatriz, Fernández García, Maria Isabel, Del Prado Llergo, José Ramón, Alamo Cantarero, Teodoro, et. al.:
Análisis y Minimización del riesgo de rotura de stock aplicado a la gestión en Farmacia Hospitalaria. *En: Farmacia Hospitalaria*. 2012. Vol. 36. Núm. 3. Pag. 131-134. 10.1016/j.farma.2011.02.007

B. Asencio, Gonzalo, Maestre Torreblanca, José, Escaño González, Juan Manuel, Martín Macareno, Cristina, Molina Cabanillas, Miquel Angel, et. al.:
Interoperabilidad en Sistemas Domóticos Mediante Pasarela Infrarrojos-ZigBee. *En: Revista Iberoamericana de Automática e Informática Industrial*. 2011. Vol. 8. Núm. 4. Pag. 397-404. V-2141-2004

Maestre Torreblanca, José, Muñoz de la Peña Sequedo, David, Fernández Camacho, Eduardo, Alamo Cantarero, Teodoro:
Distributed model Predictive Control based on agent negotiation. *En: Journal of Process Control*. 2011. Vol. 21. Núm. 5. Pag. 685-697. 10.1016/j.jprocont.2010.12.006

Zafra Cabeza, Ascensión, Maestre Torreblanca, José, Ridao Carlini, Miquel Angel, Fernández Camacho, Eduardo, Sánchez, Laura:
A hierarchical distributed model predictive Control approach to irrigation canals: A risk mitigation perspective. *En: Journal of Process Control*. 2011. Vol. 21. Núm. 5. Pag. 789-799

Alvarado Aldea, Ignacio, Limón Marruedo, Daniel, Muñoz de la Peña Sequedo, David, Maestre Torreblanca, José, Ridao Carlini, Miquel Angel, et. al.:
A Comparative Analysis of Distributed MPC Techniques Applied to the Hd-MPC Four-Tank Benchmark. *En: Journal of Process Control*. 2011. Vol. 21. Núm. 5. Pag. 800-815.
10.1016/j.jprocont.2011.03.003

De la Pinta, J.r, Maestre Torreblanca, José, Fernández Camacho, Eduardo, González Alonso, Ignacio:
Robots in the smart home: a project towards interoperability. *En: International Journal of Ad Hoc and Ubiquitous Computing*. 2011. Vol. 7. Núm. 3. Pag. 192-201

Maestre Torreblanca, José, Muñoz de la Peña Sequedo, David, Fernández Camacho, Eduardo:
Distributed model predictive control based on a cooperative game. *En: Optimal Control Applications & Methods*. 2011. Vol. 32. Pag. 153-176. 10.1002/oca

Maestre Torreblanca, José, Fernández Camacho, Eduardo:
Smart Home Interoperability: the Domoesi Project Approach. *En: International Journal of Smart Home*. 2009. Vol. 3. Núm. 3. Pag. 31-44

Maestre Torreblanca, José, Raso, L., Van Overloop, P. J., De Schutter, B.:
Distributed tree-based model predictive control on a drainage water system. *En: Journal of Hydroinformatics*. Vol. 15. Núm. 2. Pag. 335-347. doi: 10.2166/hydro.2012.125

Aportaciones a Congresos

Ranjbar, Roza, García, Javier, Maestre Torreblanca, José, Etienne, Lucien, Duviella, Eric, et. al.:
Mobile Robot Model Predictive Control Approach: Case Study of an Irrigation Canal. Ponencia en Congreso. 2023 8th International Conference on Control and Robotics Engineering, (ICCRE 2023). Niigata (Japan). 2023

Maestre Torreblanca, José, Masero, Eva, Salvador, J.r., Ramirez, D.R., Zhu, Q.:
On Data Reutilization for Historian Based Predictive Control. Ponencia en Congreso. 2022 IEEE Conference on Decision and Control. Cancun - Mexico. 2022

Garcia Martin, Javier, Hanif, Muhammad, Hatanaka, Takeshi, Maestre Torreblanca, José, Fernández Camacho, Eduardo:
Predictive Receding-Horizon Multi-Robot Task Allocation with Moving Tasks. Ponencia en Congreso. 2022 European Control Conference. Londres - UK. 2022

Araúz, Teresa, Maestre Torreblanca, José, Quevedo, D., Fernández Camacho, Eduardo:
Tree-based model predictive control strategy for software rejuvenation. Ponencia en Congreso. IEEE Conference on Decision and Control. Cancún - Mexico. 2022

Araúz, Teresa, Maestre Torreblanca, José, A., Cetinkaya,, Fernández Camacho, Eduardo:
Model-based PI design for irrigation canals with faulty communication networks. Ponencia en Congreso. European Control Conference 2021. Virtual. 2021

Chanfreut, Paula, Sanchez, Ana, Maestre Torreblanca, José, Fernández Camacho, Eduardo:
Distributed Model Predictive Control based on Dual Decomposition with Neural-Network-based Warm Start. Sesión no plenaria en Congreso. 2021 European Control Conference (ECC). Delft, Netherlands. 2021

Pierron, T, Araúz, Teresa, Maestre Torreblanca, José, Cetinkaya, A., Stoica Maniu, Cristina:
Tree-based model predictive control for jamming attacks. Ponencia en Congreso. 2020 European Control Conference (ECC). San Petersburg. Rusia. 2020

Chanfreut, Paula, Keijzer, Twan, Ferrari, Riccardo, Maestre Torreblanca, José:
A topology-switching coalitional control and observation scheme with stability guarantees. Sesión no plenaria en Congreso. 21st IFAC World Congress (Virtual). Berlin. Germany. 2020

Degachi, Hajer, Chanfreut, Paula, Maestre Torreblanca, José:
A nonlinear distributed model predictive scheme for systems based on Hammerstein model. Sesión no plenaria en Congreso. 21st IFAC World Congress (Virtual). Berlin. Germany. 2020

Chanfreut, Paula, Maestre Torreblanca, José, Zhu, Quanyan, Fernández Camacho, Eduardo:
No-Regret Learning for Coalitional Model Predictive Control. Sesión no plenaria en Congreso. 21st IFAC World Congress (Virtual). Berlin. Germany. 2020

Masero, Eva, Maestre Torreblanca, José, Sutil, Mario Francisco, Fernández Camacho, Eduardo:
Coalitional MPC with predicted topology transitions. Ponencia en Congreso. 21st IFAC World Congress (Virtual). Berlin. Germany. 2020

Masero, Eva, Fletcher, Luis A., Maestre Torreblanca, José:
A Coalitional Model Predictive Control Approach for Heterogeneous Cellular Networks. Ponencia en Congreso. 2020 European Control Conference. Saint Petersburg (Rusia). 2020

García, Javier, Muros Ponce, Francisco Javier, Masero, Eva, Fernández Camacho, Eduardo, Maestre Torreblanca, José:
An LMI-Based Design Method for Modular Observers. Ponencia en Congreso. 2020 European Control Conference. Saint Petersburg (Rusia). 2020

Maestre Torreblanca, José, Velarde, Pablo, Muros Ponce, Francisco Javier:
An Application of the Logarithmic Mean Divisia Index Method for Predictive Control Schemes to a Power Flow Network. Ponencia en Congreso. 2019 American Control Conference. Philadelphia, Pennsylvania, USA. 2019

Chanfreut, Paula, Maestre Torreblanca, José, Muros Ponce, Francisco Javier, Fernández Camacho, Eduardo:
A Coalitional Control Scheme with Topology-Switchings Convexity Guarantees. Sesión no plenaria en Congreso. 58th Conference on Decision and Control. Nice, France. 2019

Alvarado Aldea, Ignacio, Maestre Torreblanca, José:
A Lightsaber to Introduce Students to. Ponencia en Congreso. International Federation of Automatic Control Advanced in Control Education Symposium. Philadelphia, Pennsylvania, USA. 2019

Sprog, J.p., Lin, X., Maestre Torreblanca, José, Negenborn, R.r.:
Quality-Aware Control for optimizing meat supply chains. Ponencia en Congreso. 2019 18th European

Control Conference. Napoles, ITALY. 2019

Romero, Alberto, Goldar, Alejandro, Coutto, Luis D., Maestre Torreblanca, José, Garone, Emanuele:
Fast Charge of Li-ion Batteries using a two-layer distributor MPC with Electro-Chemical and Thermal Constraints. Ponencia en Congreso. 2019 18th European Control Conference. Napoles, ITALY. 2019

Maestre Torreblanca, José, A. Trodden, Paul, Ishii, Hideaki:
A Distributed Model Predictive Control Scheme with Robustness Against Noncompliant Controllers. Ponencia en Congreso. 2018 IEEE Conference on Decision and Control (CDC). Miami Beach, FL. USA. 2018

Ananduta, Wicak, Maestre Torreblanca, José, Ocampo Martínez, Carlos, Ishii, Hideaki:
Resilient Distributed Energy Management for Systems of Interconnected Microgrids. Ponencia en Congreso. 2018 IEEE Conference on Decision and Control (CDC). Miami Beach, FL. USA. 2018

Muros Ponce, Francisco Javier, Maestre Torreblanca, José, Ocampo Martínez, Carlos, Algaba Durán, Encarnación, Fernández Camacho, Eduardo:
Partitioning of Large-Scale Systems using Game-Theoretic Coalitional Methods. Ponencia en Congreso. European Control Conference. Limassol, Chipre. 2018

Chanfreut, Paula, Maestre Torreblanca, José, Ishii, H.:
Vulnerabilities in Distributed model predictive control base don Jacobi-Gauss decomposition. Ponencia en Congreso. European Control Conference. Limassol, Chipre. 2018

Araúz, Teresa, Maestre Torreblanca, José, Romero, A., Stojanovski, G.:
Robot coordination to create collaborative panoramic images. Ponencia en Congreso. 2017 13th IEEE International Conference on Control & Automation (ICCA). Ohrid - Macedonia. 2017

Velarde, Pablo, Maestre Torreblanca, José, Ishii, Hideaki, Negenborn, Ruddy:
Scenario-based defense mechanism for distributed model predictive control. Ponencia en Congreso. 56th Conference on Decision and Control. Melbourne, VIC, Australia. 2017

Velarde, Pablo, Maestre Torreblanca, José, Ishii, Hideaki, Negenborn, Ruddy:
Vulnerabilities in Lagrange-based DMPC in the context of cyber-security. Ponencia en Congreso. IEEE International Conference on Autonomic Computing. Columbus, OH, USA. 2017

Muros Ponce, Francisco Javier, Maestre Torreblanca, José:
Model Predictive Control for Optimal Treatment in a Spatial Cancer Game. Ponencia en Congreso. 2017 IEEE 56th Annual Conference on Decision and Control. Melbourne (Australia). 2017

López Rodríguez, F., Horváth, K., García Martín, J., Maestre Torreblanca, José:
Mobile Model Predictive Control for the Évora irrigation test canal. Ponencia en Congreso. 20th IFAC World Congress. Toulouse, France. 2017

Alvarez, Teresa, Maestre Torreblanca, José:
Controller tuning in multi-router networks. Ponencia en Congreso. The 7th International Conference on Internet Studies 2016. Osaka, Japon. 2016

Maestre Torreblanca, José, Ishii, H.:
A Cooperative Game Theory approach to the PageRank Problem. Ponencia en Congreso. 2016 American Control Conference. Boston. 2016

Trodden, P.a., Baldivieso Monasterios, P. R., Maestre Torreblanca, José:
Distributed MPC with Minimizaiton of Mutual Disturbance Sets. Ponencia en Congreso. 2016 American Control Conference. Boston. 2016

C. Mendes, Paulo R, Maestre Torreblanca, José, Bordons Alba, Carlos, Normey Rico, Julio E.:
Binary Search Algorithm for Mixed Integer Optimization: Application to energy management in a microgrid. Ponencia en Congreso. 2016 European Control Conference. Aalborg (Dinamarca). 2016

Velarde, Pablo, Maestre Torreblanca, José, Ocampo Martínez, C., Bordons Alba, Carlos:
Application of Robust Model Predictive Control to a Renewable Hydrogen-based Microgrid. Ponencia en Congreso. 2016 European Control Conference. Aalborg (Dinamarca). 2016

Muros Ponce, Francisco Javier, Algaba Durán, Encarnación, Maestre Torreblanca, José, Fernández Camacho, Eduardo:
Cooperative Game Theory Tools to Detect Critical Nodes in Distributed Control Systems. Ponencia en Congreso. 2016 European Control Conference. Aalborg (Dinamarca). 2016

Muros Ponce, Francisco Javier, Maestre Torreblanca, José, Algaba Durán, Encarnación, Ocampo Martínez, C., Fernández Camacho, Eduardo:
An Application of the Shapley Value to Perform System Partitioning. Ponencia en Congreso. 2015

American Control Conference (ACC). Chicago - Illinois (EEUU). 2015

Fele, Filiberto, Maestre Torreblanca, José, Fernández Camacho, Eduardo:
Coalitional control: a bottom-up approach. Ponencia en Congreso. 2015 American Control Conference (ACC). Chicago - Illinois (EEUU). 2015

Muros Ponce, Francisco Javier, Maestre Torreblanca, José, Algaba Durán, Encarnación, Alamo Cantarero, Teodoro, Fernández Camacho, Eduardo:
An Algorithm with Low Computational Requirements to Constrain the Shapley Value in Coalitional Networks. Ponencia en Congreso. 23rd Mediterranean Conference on Control and Automation (MED). Torremolinos, Málaga. 2015

Sadowska, A., Van Overloop, P.j., Maestre Torreblanca, José, De Schutter, B.:
Human-in-the-loop control of an irrigation canal using time instant optimization model predictive control. Ponencia en Congreso. 2015 European Control Conference (ECC). Linz - Austria. 2015

Maestre Torreblanca, José, Muros Ponce, Francisco Javier, Fele, Filiberto, Fernández Camacho, Eduardo:
An Assessment of Coalitional Control in Water Systems. Ponencia en Congreso. 2015 European Control Conference (ECC). Linz - Austria. 2015

Maestre Torreblanca, José, Ocampo Martínez, Carlos:
An application of Chance-Constrained Model Predictive Control to Inventory Management in Hospitalary Pharmacy. Ponencia en Congreso. International Conference on Innovation in Medicine and Healthcare. Donostia- San Sebastian. España. 2014

Fele, Filiberto, Maestre Torreblanca, José, Fernández Camacho, Eduardo:
Coalitional MPC control applied to an irrigation canal. Poster en Congreso. ACROSS Workshop on Cooperative Systems. Dubrovnik. 2014

Grosso, Juan M., Maestre Torreblanca, José, Ocampo Martínez, Carlos, Puig, Vicente:
On the Assessment of Tree-Based and Chance-Constrained Predictive Control Approaches Applied to Drinking Water Networks. Ponencia en Congreso. 19th IFAC World Conference. Cape Town, Cape town . South Africa. 2014

Negenborn, R.r., Maestre Torreblanca, José:
Distributed Model Predictive Control: An overview of features and research opportunities. Ponencia en Congreso. 2014 IEEE 11th International Conference on Networking, Sensing and Control (ICNSC),. Amsterdam - Netherlands. 2014

Maestre Torreblanca, José, J. Van Overlo, P., Hashemy, M., Sadow, A., Fernández Camacho, Eduardo:
Human in the Loop Model Predictive Control: an Irrigation Canal Case Study. Ponencia en Congreso. 53rd IEEE Conference on Decision and Control 2014. Los Angeles, CALIFORNIA. USA. 2014

Maestre Torreblanca, José, Velarde, Pablo, Jurado Flores, Isabel, Ocampo Martínez, C, Fernández García, Maria Isabel, et. al.:
An application of Chance-Constrained Model Predictive Control to Inventory Management in Hospitalary Pharmacy. Ponencia en Congreso. 53rd IEEE Conference on Decision and Control 2014. Los Angeles, CALIFORNIA. USA. 2014

López Ramírez, Alberto José, Jurado Flores, Isabel, Fernández García, Maria Isabel, Isla Tejera, Beatriz, Del Prado Llergo, Jose Ramon, et. al.:
Optimization of the Demand Estimation in Hospital Pharmacy. Ponencia en Congreso. 2014 IEEE Emerging Technology and Factory Automation (ETFA). - Barcelona, España,. 2014

Velarde, Pablo, Maestre Torreblanca, José, Jurado Flores, Isabel, Fernández García, Maria Isabel, Isla Tejera, Beatriz, et. al.:
Application of Robust Model Predictive Control to Inventory Management in Hospitalary Pharmacy. Ponencia en Congreso. 2014 IEEE Emerging Technology and Factory Automation (ETFA). - Barcelona, España,. 2014

Muros Ponce, Francisco Javier, Maestre Torreblanca, José, Algaba Durán, Encarnación, Alamo Cantarero, Teodoro, Fernández Camacho, Eduardo:
An iterative design method for Coalitional control networks with constraints on the shapley Value. Ponencia en Congreso. 19th IFAC World Conference. Cape Town, Cape town . South Africa. 2014

Muros Ponce, Francisco Javier, Maestre Torreblanca, José, Algaba, E., Alamo Cantarero, Teodoro, Fernández Camacho, Eduardo:
Constraints on the Shapley Value for a Coalitional Control System. Ponencia en Congreso. 2014 European Confence Control (ECC). Estrasburgo (Francia). 2014

Muros Ponce, Francisco Javier, Maestre Torreblanca, José, Algaba, E., Fernández Camacho, Eduardo:
Restricciones en el Valor de los Enlaces de Comunicación en un Sistema de Control Coalicional. Poster en

Congreso. XXXIV Jornadas de Automática. Terrassa. Barcelona. 2013

Fele, Filiberto, Maestre Torreblanca, José, Muros Ponce, Francisco Javier, Fernández Camacho, Eduardo:
Coalitional Control: an Irrigation Canal Case Study. Ponencia en Congreso. 2013 IEEE International Conference on Networking, Sensing and Control. Evry, France. 2013

Peter Jules Van Overloop, Xin Tian, Negenborn, Rudy, Maestre Torreblanca, José:
Incorporating transport over water in the multi-objective water management of the Lake IJssel area in The Netherlands. Ponencia en Congreso. 2013 IEEE International Conference on Networking, Sensing and Control. Evry, France. 2013

Maestre Torreblanca, José, Doan, M.d., Muñoz de la Peña Sequedo, David, Van Overloop, P. J., Keviczky, T., et. al.:
Benchmarking the Operation of a Hydro Power Network Through the Application of Agent-Based Model Predictive Controllers. Ponencia en Congreso. 10th International Conference on Hydroinformatics. Hamburg, Germany. 2012

Tian, X., Maestre Torreblanca, José, Van Overloop, P.i., Negenborn, R.r.:
Distributed Model Predictive Control for Multi-Objective Water System Management. Ponencia en Congreso. 10th International Conference on Hydroinformatics. Hamburg, Germany. 2012

Maestre Torreblanca, José, ., S.m. Hashemy Shahdany, P.i., Van Overloop, M. J., Monem:
An application of a dynamical set point policy to main irrigation canals using in-line storage. Ponencia en Congreso. European Geosciences Union General Assembly, 2012. Vienna, Austria. 2012

Maestre Torreblanca, José, Raso, L., Van Overloop, P. J., De Schutter, B.:
Distributed Tree-Based Model Predictive Control on an Open Water System. Ponencia en Congreso. 2012 American Control Conference. Montreal. Canada. 2012

Alvarez Romero, Antonio, Martín Macareno, Cristina, Maestre Torreblanca, José:
Cardiac Monitoring Systems. Ponencia en Congreso. International Robotics Workshop. Oviedo. Asturias. 2011. Intera 2011 - International Technology Robotics Applications. CD. ROM

Ramírez de la Pinta, Javier, Martín Macareno, Cristina, Alvarez Romero, Antonio, Maestre Torreblanca, José:
Smoke Detectors: Development of an Alarm Management System for Upnp. Ponencia en Congreso. International Robotics Workshop. Oviedo. Asturias. 2011. Intera 2011 - International Technology Robotics Applications. CD. ROM

Maestre Torreblanca, José, Muñoz de la Peña Sequedo, David, Fernández Camacho, Eduardo:
Wireless Network Analysis Through a Coalitional Game: Application to a Distributed Kalman Filter. Ponencia en Congreso. 2011 IEEE International Conference on Networking Sensing and Control. Delf. Holanda. 2011. Proceedings of the 2011 IEEE International Conference on Networking Sensing and Control (IEEE Icncs). 228. 233

Zafra Cabeza, Ascensión, Maestre Torreblanca, José, Ridao Carlini, Miquel Angel, Fernández Camacho, Eduardo, Sanchez, Laura:
Hierarchical Distributed Model Predictive Control for Risk Mitigation: An Irrigation Canal Case Study. Ponencia en Congreso. 2011 American Control Conference. California. USA. 2011. Proceedings of the 2011 American Control Conference (Acc 2011). 3172. 3177

Maestre Torreblanca, José, Muñoz de la Peña Sequedo, David, Jimenez Losada, A., Algaba Durán, Encarnación, Fernández Camacho, Eduardo:
An Application of Cooperative Game Theory to Distributed Control. Ponencia en Congreso. 18th IFAC WORLD CONGRESS. Milan. 2011. Preprint of the 18th IFAC World Congress. 9121. 9126

Fernández Alcalá, Mercedes R., Gonzalez Alonso, Ignacio, Fuente Garcia, M.P. Almudena, Maestre Torreblanca, José:
A Case Study of the Application of Upnp in Robotic and Home Automation Services. Ponencia en Congreso. International Conference on Information Technology: New Generations. Las Vegas. Nevada. USA. 2010. Proceedings of the 7th International Conference on Information Technology: New Generations (Itng2010). 1. 6

Maestre Torreblanca, José, Martín Macareno, Cristina, Alvarez Romero, Antonio, Ramírez de la Pinta, Javier:
Robots de Servicio y su Integración en el Hogal Digital. Ponencia en Congreso. Ponencia Jornadas de Robotica. Sevilla. España. 2010. Ponencia I Jornadas de Robótica de la Universidad de Sevilla. 1. 100

Cuenca, Francisca, Maestre Torreblanca, José, Fernández García, Maria Isabel:
Impacto Económico de la Aplicación de Técnicas de Control Predictivo Basado en Modelo a la Gestión de un Servicio de Farmacia. Ponencia en Congreso. VII Congreso de la Sociedad Andaluza de Farmacia.

Ronda. 2010. Actas del VII Congreso de la Sociedad Andaluza de Farmacia. 1. 2

Alvarez Romero, Antonio, Martín Macareno, Cristina, Maestre Torreblanca, José, Fernández Camacho, Eduardo:

Tecnologías para la Interoperabilidad Entre Sistemas Heterogéneos. Poster en Congreso. XXXI Jornadas de Automática. Jaén, España. 2010. Comunicaciones Ja' en XXXI Jornadas de Automáticas (Ja'2010). CD. ROM

Pereira Ruíz, Sergio, Ramírez de la Pinta, Javier, Maestre Torreblanca, José, Fernández Camacho, Eduardo:

Localización de Robot Móvil Mediante Zigbee. Poster en Congreso. XXXI Jornadas de Automática. Jaén, España. 2010. Comunicaciones Ja' en XXXI Jornadas de Automáticas (Ja'2010). CD. ROM

Maestre Torreblanca, José, Del Prado Llergo, Jr., Isla Tejera, Beatriz, Fernández Camacho, Eduardo:

Aplicación de Control Predictivo Basado en Modelo a Gestión de Stock. Poster en Congreso. 55 Congreso Nacional Sefh. 2010. 55 Congreso Nacional Sefh. 255. 256

Maestre Torreblanca, José, Giselsson, P., Rantzer, A.:

Distributed Receding Horizon Kalman Filter. Ponencia en Congreso. 49th IEEE Conference on Decision and Control. Atlanta, GA, USA. 2010. Proceedings of the 49th IEEE Conference on Decision and Control. 5068. 5074

Maestre Torreblanca, José, Muñoz de la Peña Sequedo, David, Fernández Camacho, Eduardo:

A distributed MPC scheme with low communication requirements. Ponencia en Congreso. American Control Conference. USA. 2009. Proceedings of the 2009 American Control Conference (Acc'09)*. 2797. 2803

Vicaria Flores, Juan Antonio, Maestre Torreblanca, José:

Wiimote's Applications for People With Disabilities. Ponencia en Congreso. Iadis Multi Conference on Computer Science and Information Systems Mccsis 2009*. Algarve. Portugal. 2009. Proceedings of Interfaces and Human Computer Interaction 2009 and Game and Entertainment Technologies 2009. 223. 228

Muros Ponce, Francisco Javier, Vicaria Flores, Juan Antonio, Maestre Torreblanca, José:

Aplicaciones del Controlador Wiimote para Personas con Discapacidad. Poster en Congreso. XXX Jornadas de Automática. Valladolid. 2009. Actas de las XXX Jornadas de Automática. CD. ROM

Janeiro Benitez, David, Maestre Torreblanca, José, Fernández Camacho, Eduardo:

Reconocimiento de escritura en 3D mediante Wiimote. Ponencia en Congreso. XXX Jornadas de Automática. Valladolid. 2009. Actas de las XXX Jornadas de Automática. CD. ROM

Maestre Torreblanca, José, Fernández Camacho, Eduardo:

Interoperabilidad en Sistemas Domóticos: Aproximación en el Proyecto Domoesi. Mesa redonda de Congreso. XXX Jornadas de Automática. Valladolid. 2009. Actas de las XXX Jornadas de Automática. CD. ROM

Maestre Torreblanca, José, Muñoz de la Peña Sequedo, David, Fernández Camacho, Eduardo:

Distributed MPC base don a cooperative game. Comunicación en congreso. 48th IEEE CONFERENCE ON DECISION AND CONTROL HELD JOINTLY WITH 2009 28TH CHINESE CONTROL CONFERENCE. China. Shanghai. 2009. Proceedings of the 48th IEEE Conference on Decision and Control Held Jointly With 2009 28th Chinese Control Conference. 5390. 5395

Maestre Torreblanca, José, Muñoz de la Peña Sequedo, David, Fernández Camacho, Eduardo:

Distributed MPC; a supply chain case study. Ponencia en Congreso. 48th IEEE CONFERENCE ON DECISION AND CONTROL HELD JOINTLY WITH 2009 28TH CHINESE CONTROL CONFERENCE. China. Shanghai. 2009. Proceedings of the 48th IEEE Conference on Decision and Control Held Jointly With 2009 28th Chinese Control Conference. 7099. 7104

Maestre Torreblanca, José:

Interoperabilidad y Knx: Presente, Futuro y Retos. Ponencia en Congreso. Congreso Español de Domótica e Inmótica Knx. Algeciras. 2009. Ponencias II Congreso Español de Domótica e Inmótica Knx. 1. 46

Álvarez, Teresa, Annuar, Salim, Maestre Torreblanca, José:

A Control Theoretical Approach to Congestion Control of Tcp/Aqm Networks. Ponencia en Congreso. European Control Conference. Budapest, Hungría. 2009. Proceedings of the European Control Conference 2009. (ECC 09) *. 2942. 2947

Chico, M.j., Maestre Torreblanca, José, Fernández Camacho, Eduardo:

Software X10-UPNP Bridge. Ponencia en Congreso. Iadis International Conference on Applied Computing. Amsterdam, Amsterdam, the Netherland. 2008

Lobillo, Ramón, Maestre Torreblanca, José, Fernández Camacho, Eduardo:

Sistema de Localización Mediante Tecnología Zigbee: aplicaciones a Domótica. Poster en Congreso. XXIX Jornadas de Automática. Tarragona. España. 2008. Actas de las XXIX Jornadas de Automática (Ja'08) *. CD. ROM

Muros Ponce, Francisco Javier, Maestre Torreblanca, José, Fernández Camacho, Eduardo:

Estudio de Robustez frente a Retardos y Pérdida de Datos de una Estrategia DMPC Basada en Pocos Ciclos de Comunicación. Poster en Congreso. XXIX Jornadas de Automática. Tarragona. España. 2008. Actas de las XXIX Jornadas de Automática (Ja'08) *. CD. ROM

Maestre Torreblanca, José, Fernández Camacho, Eduardo:

Cellular petri nets. Ponencia en Congreso. Iadis International Conference e-Learning 2008. Amsterdam,, 2008. Iadis Multi Conference on Computer Science and Information Systems. 182. 187

Vicaria Flores, Juan Antonio, Maestre Torreblanca, José, Fernández Camacho, Eduardo:

Academical and Research Wiimote Applications. Ponencia en Congreso. Iadis International Conference e-Learning 2008. Amsterdam,. 2008. Iadis Multi Conference on Computer Science and Information Systems. 1. 6

Maestre Torreblanca, José, Fernández Camacho, Eduardo:

Simulador para redes de Petri Híbridas. Poster en Congreso. XXVIII Jornadas de Automática. Huelva. 2007. Actas de las XXVIII Jornadas de Automática. CD. ROM

Maestre Torreblanca, José, Vicaria Flores, Juan Antonio, Fernández Camacho, Eduardo:

Control de Robot Manipulador Mediante Wiimote. Poster en Congreso. XXVIII Jornadas de Automática. Huelva. 2007. Actas de las XXVIII Jornadas de Automática. CD. ROM

Tesis dirigidas y co-dirigidas:

Fletscher Bocanegra, Luis Alejandro:

Control Strategies for Energy Efficiency of Next-generation Cellular Networks with Hybrid Energy Sources. Tesis Doctoral. 2018

Ramírez de la Pinta, Javier:

Integration of service robots in the smart home. Tesis Doctoral. 2017

Muros Ponce, Francisco Javier:

Cooperative game theory tools in coalitional control networks. Tesis Doctoral. 2017

Velarde Rueda, Pablo:

Stochastic Model Predictive Control for Robust Operation of Distribution Systems. Tesis Doctoral. 2017

Fele, Filiberto:

Coalitional model predictive control for systems of systems. Tesis Doctoral. 2017