

Joaquín Ordieres Meré

Curriculum Vitae. Short version

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Current Position

2009-Present **Full Professor**, *Universidad Politécnica de Madrid, Department of Industrial Engineering, Business Administration and Statistics, Madrid, ES*

Areas of Interest in Research & Consultancy

Knowledge Management

- o **Big Data**, *Business Intelligence, Business Analytics*
- o **Improving industrial processes by using data based models**, *Process Optimization, Data Mining, Business Intelligence*
- o **Pollution models based on data**, *Environmental estimation, Data Mining*
- o **Energy**, *Biomethanization and Solar Technologies, BioMethanization: MSW, (Solar: Nanocoatings related to glass transmission improvement*

Modelling

- o **Finite Element Method based models**, *Numerical Models*
- o **Industry 4.0 and Human behavior interactions**, *Steel Industry*
- o **Industrial Internet of Things**, *Processes*

Management

- o **Competence Metrics in Project Management**, *Competences, Project Management*
- o **Digital Business Process Modelling**, *Project Management*
- o **Project, Program and Portfolio Governance**, *Project Management*
- o **Lean Manufacturing**, *(Industry 4.0 and Lean)*
- o **Lean Management**, *(CPD)_{nA}*

Bibliometrics KPIs

Agencies

May 2025

	Documents	Citations	h-index	Q1	D1	IFNA	IFNB	IFNESI
WoS	142	7761	28	53	13	1.32	1.03	1.08
Scopus	160	8746	31	76	44	1.35	1.11	–

Google Scholar

May 2025

	All	Since 2020
Citations	14920	9699
h-index	42	36
i10-index	96	71

Publications

Papers.

Mercedes Grijalvo, Diego Rorato Fogaça, Andrea Herrero, Guillermo Martín-Ávila, Yolanda Aladro-Benito, and Joaquin Ordieres-Meré. Enhancing quality in healthcare services: a pss approach in multiple sclerosis. In *Lecture Notes on Data Engineering and Communications Technologies*. 2025.

Carlos García-Castellano Gerbolés, Miguel Gutierrez, Miguel Ortega-Mier, and Joaquín Ordieres-Meré. Exploring the adoption and application of transformer models in manufacturing scheduling. In *Lecture Notes on Data Engineering and Communications Technologies*. 2025.

Amir Farmanesh, Irene Pereda Serrano, Joaquín Ordieres-Meré, Slobodan Bojanic, and Bojan Prlinčević. Improving transparency on energy transportation losses through digitalization technologies. In *2025 29th International Conference on Information Technology (IT)*, 2025.

Amir Farmanesh, Raúl Gutierrez-Sanchis, and Joaquín Ordieres-Meré. Comparison of deep transfer learning against contrastive learning in industrial quality applications for heavily unbalanced data scenarios when data augmentation is limited. *Sensors*, 25(10):3048, 2025. **Q2**; 3.4; Sensors.

Francisco Espiga-Fernández, Álvaro García-Sánchez, and Joaquín Ordieres-Meré. gymfolio: A reinforcement learning environment for portfolio optimization in python. *SoftwareX*, 30:102106, 2025. **Q2**; 2.4; Computer Science, Software Engineering.

Antonia Pacios Alvarez, Torben Lenau, Lilie Boizumault, and Joaquín Ordieres-Meré. Reimagining higher education: Leveraging ai and biomimicry to enhance creativity and complex problem-solving skills in civil engineering and beyond. In *INTED Proceedings*, 2025.

Joaquín Ordieres-Meré, Antonio Bello-García, Ahmad Rajabi, and Jens Brandenburger. Human impact in complex classification of steel coils. In *Lecture Notes in Networks and Systems*. 2024.

Joaquin Ordieres-Meré and Miguel Ángel Ortega-Mier. Challenges in industry 5.0: Human behavior integration. In *Lecture Notes in Mechanical Engineering*. 2024.

Joaquin Ordieres-Meré, Ahmad Rahabi, Daniel Falkowski, Nikolaos Matskanis, Jens Brandenburger, and Carlos García-Castellano Gerbolés. Smart workflows for advanced quality assessment in steel industry: Benefits of i5.0. In *Lecture Notes in Mechanical Engineering*. 2024.

P. Mas-Buitrago, A. González-Marcos, E. Solano, V. M. Passegger, M. Cortés-Contreras, J. Ordieres-Meré, A. Bello-García, J. A. Caballero, A. Schweitzer, H. M. Tabernero, D. Montes, and C. Cifuentes. Using autoencoders and deep transfer learning to determine the stellar parameters of 286 carmenes m dwarfs. *Astronomy & Astrophysics*, 687:A205, July 2024. **Q1**; 5.4; Astronomy & Astrophysics (2023).

Mercedes Grijalvo, Joaquín Ordieres-Meré, Javier Villalba-Díez, Yolanda Aladro-Benito, Guillermo Martín-Ávila, Arancha Simon-Hurtado, and Carlos Vivaracho-Pascual. Sufficiency for pss tracking gait disorders in multiple sclerosis: A managerial perspective. *Heliyon*, 10(9):e30001, May 2024. **Q1**; 3.4; Multidisciplinary Sciences (2023).

José N. Franco-Riquelme, Alberto Tejero, Luis Rubalcaba, and Joaquín B. Ordieres-Meré. Measuring the connection between open innovation, dynamic capabilities, and linkedin in tech-based companies. *Journal of the Knowledge Economy*, 2024.

Francisco Espiga-Fernández, Álvaro García-Sánchez, and Joaquín Ordieres-Meré. A systematic approach to portfolio optimization: A comparative study of reinforcement learning agents, market signals, and investment horizons. *Algorithms*, 2024. **Q2**; 1.8; Computer Science, Theory & Methods.

Xiaochen Zheng, Shengjing Sun, Joaquín Ordieres-Meré, Jinzhi Lu, and Dimitris Kiritsis. Applying distributed ledger technology to facilitate iiot data exchange: An approach based on iota tangle. In *Proceedings of the I-ESA Conferences*, 2023.

Tomas Rudolf Sterkenburgh, Javier Villalba-Díez, and Joaquín Ordieres-Meré. Socio-technical analysis of the benefits and barriers to using a digital representation of the global horse population in equine veterinary medicine. *Animals*, 13(22):3557, November 2023. **Q1**; 2.7; Agriculture, Dairy & Animal Science.

- Joaquín Ordieres-Meré, Miguel Gutierrez, and Javier Villalba-Díez. Toward the industry 5.0 paradigm: Increasing value creation through the robust integration of humans and machines. *Computers in Industry*, 150:103947, September 2023. **Q1**; 8.2; Computer Science, Interdisciplinary Applications.
- G. Morales-Alonso, I. Pablo-Lerchundi, A. Ramírez-Portilla, and J. Ordieres-Meré. Entrepreneurial intention through the lens of the pareto rule: A cross-country study. *Cogent Business & Management*, 10(3), November 2023. **Q2**; 3.0; Business.
- A Bello-García, VM Passegger, J Ordieres-Meré, A Schweitzer, JA Caballero, A González-Marcos, I Ribas, A Reiners, A Quirrenbach, PJ Amado, et al. The carmenes search for exoplanets around m dwarfs a deep learning approach to determine fundamental parameters of target stars. *ASTRONOMY & ASTROPHYSICS*, 673, 2023. **Q1**; 5.4; Astronomy & Astrophysics.
- Javier Villalba-Díez, Joaquín Ordieres-Meré, Ana González-Marcos, and Aintzane Soto Larzabal. Quantum deep learning for steel industry computer vision quality control. volume 55, pages 337–342, 2022. 14th IFAC Workshop on Intelligent Manufacturing Systems IMS 2022.
- Javier Villalba-Díez, Ana González-Marcos, and Joaquín Ordieres-Meré. Quantum cyber-physical systems. *Scientific Reports*, 12(1), may 2022. **Q1**; 3.8; Multidisciplinary Sciences.
- Antonio Sánchez-Herguedas, Angel Mena-Nieto, Francisco Rodrigo-Muñoz, Javier Villalba-Díez, and Joaquín Ordieres-Meré. Optimisation of maintenance policies based on right-censored failure data using a semi-markovian approach. *Sensors*, 22(4):1432, 2022. **Q2**; 3.9; Engineering, Electrical & Electronic.
- VM Passegger, A Bello-García, J Ordieres-Meré, A Antoniadis-Karnavas, E Marfil, C Duque-Arribas, PJ Amado, E Delgado-Mena, D Montes, B Rojas-Ayala, et al. Metallicities in m dwarfs: Investigating different determination techniques. *Astronomy & Astrophysics*, 658:A194, 2022. **Q1**; 6.5; Astronomy & Astrophysics.
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- J. Ordieres-Meré, G. Morales-Alonso, M. Gutiérrez, G. Mossa, J. Lundquist, G. Mummolo, and J. Oleśków-Szłapka. Asynchronous microlearning experience in industrial management master course. In *INTED2022 Proceedings*, 16th International Technology, Education and Development Conference, pages 8598–8603. IATED, 7-8 March, 2022 2022.
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- Guillermo Mart n- vila, Alba Vieira-Campos, Sergio Labrador-Marcos, Xiaochen Zheng, Alejandro M ndez-Burgos, Israel Thuissard, Cristina Andreu-V zquez, Joaqu n Ordieres-Mer , and Yolanda Aladro. Patients' self-assessment of essential tremor severity by a validated scale: A useful tool in telemedicine? *Parkinsonism & Related Disorders*, 96:22–28, 2022. **Q2**; 4.1; Clinical Neurology.

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- José Nicanor Franco-Riquelme and Luis Rubalcaba. Innovation and sdgs through social media analysis: Messages from fintech firms. *Journal of Open Innovation: Technology, Market, and Complexity*, 2021.
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- Daniel Schmidt, Roman Gevers, Jörg Schwiep, Joaquín Ordieres-Meré, and Javier Villalba-Diez. Deep learning enabling quality improvement in rotogravure manufacturing. In *Procedia Manufacturing*, 2020.
- Cristina Ramírez-Aragón, Joaquín Ordieres-Meré, Fernando Alba-Elías, and Ana González-Marcos. Numerical modeling for simulation of compaction of refractory materials for secondary steelmaking. *Materials*, 13(1):224, 2020. **Q2**; 3.057; Materials Science, Multidisciplinary.

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A. Pacios Alvarez, A. Paris, F. Alba-Elías, A. González-Marcos, J.E. Vicuña Martínez, and J. Ordieres-Meré. Bim and spanish higher education. In *INTED2020 Proceedings*, 14th International Technology, Education and Development Conference, pages 634–637. IATED, 2-4 March, 2020 2020.

Joaquín Ordieres-Meré, Tomás Prieto Remón, and Jesús Rubio. Digitalization: An opportunity for contributing to sustainability from knowledge creation. *Sustainability*, 12(4):1460, 2020. **Q2**; 2.468; Environmental Science.

J. Ordieres-Meré, J. Ouarzazi, B. El Johra, and B. Gong. Predicting ground level ozone in marrakesh by machine-learning techniques. *JOURNAL OF ENVIRONMENTAL INFORMATICS*, 36(2), 2020. **Q1**; 4.604; Environmental Science.

J. Oleśków Szłapka, M. Ortega-Mier, J. Ordieres-Meré, F. Facchini, G. Mossa, and J. Lundquist. Innovative methodologies and digital tools for higher education in industrial engineering and management. In *INTED2020 Proceedings*, 14th International Technology, Education and Development Conference, pages 1019–1027. IATED, 2-4 March, 2020 2020.

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Ermal Hetemi, Joaquin Ordieres-Meré, and Cali Nuur. An institutional approach to digitalization in sustainability-oriented infrastructure projects: The limits of the building information model. *Sustainability*, 2020.

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Ermal Hetemi, Hans Georg Gemünden, and Joaquín Ordieres Meré. Embeddedness and actors' behaviors in large-scale project life cycle: Lessons learned from a high-speed rail project in spain. *Journal of Management in Engineering*, 36(6):05020014, 2020. **Q1**; 2.867; Civil Engineering.

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Editorial Engagement

From 2020 – Member of the Editorial Board of *International Journal of Data Mining, Modelling and Management* [link]

From 2022 – Member of the Editorial Board of *MDPI Sensors* [link]

From 2023 – Member of *Frontiers in Built Environment*, section of Construction Management [link]

From 2024 – Member of the Editorial Board of *ELSP AI+* [link]

Previous Positions

2018–2018 **Visiting Professor**, *Five months at Centre de la Recherche de Gestion (CRG-i3). École Polytechnique, Campus de Saclay, Paris.*, Management, France

2014–2014 **Visiting Professor**, *One month at The Beijing Institute of Technology (BIT), NLP, CHINA*

2011–2011 **Visiting Professor**, *Six months at The University of Iowa, Department of Industrial and Mechanical Engineering, IA, USA*

2005–2005 **Visiting Professor**, *Four months at Ecole Internationale des Sciences du Traitement de l'information., Campus Pau, France*

1997–2009 **Full Professor**, *Universidad de la Rioja, Department of Mechanical Engineering, La Rioja, ES*

1992–1997 **Associate Professor**, *Universidad de Oviedo, Department of Mining Engineering, Asturias, ES*

1988–1992 **Assistant Professor**, *Universidad de Oviedo, Department of Applied Mathematics, Asturias, ES*

1986–1986 **Visiting Researcher**, *INRIA: Institut National de Recherche en Informatique et en Automatique, Versailles/Paris, FR*

Languages

Spanish Native Language
 English Intermediate
 French Intermediate

Other Skills

Academic Formalities

Docent Six five-year periods granted
 Periods

Research Five six-year periods granted
 Periods

Certifications

PM Project Management Institute, Project Manager Professional

PM International Project Management Association, Level B

Representation

PM Spanish member of delegation for the ISO TC258

EU Spanish representant at Technical Committee for Steel Research TSG8

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 Number

Information Systems

Languages Java, C, C++, Pro*C, Oracle PL/SQL, Python, Perl, PHP, JavaScript, awk, UML

Packages MATLAB, R, RStudio, Lisa

Platforms UNIX, Linux, Windows, TSO/ISPF, Hadoop, Spark, Virtualization, CUDA

Databases Sybase, Oracle, DB2, MySQL, Access, MsSQL, NonSQL Databases(CouchDB,MongoDB)

Tools Office, L^AT_EX2e

Shells CakePHP, activiti, project.net, netlogo, Weka, Pentaho, Aptana, Eclipse

FEM Modulef, Abaqus, Ansys, OpenFEM, Aster, Fluent, Algor