

# Internal documentation for evaluators

## MISCE project

Mechatronics for Improving and Standardizing Competences in Engineering



Document: WP5 report

Summary of diffusion activities

## SCOPE

The objective of this brief document is to summarize the main diffusion activities of the MISCE project<sup>1</sup>.

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<sup>1</sup> <https://uclm-mantis.github.io/miscel/news/>

## Promoting MISCE project

- Visit to University Rey Juan Carlos (Madrid, Spain): Explanation of MISCE project and developed devices (contact persons: Antonio José del Ama | [antonio.delama@urjc.es](mailto:antonio.delama@urjc.es) & José L. Pulloquina | [jose.pulloquina@urjc.es](mailto:jose.pulloquina@urjc.es)) – May 2024.
- Exchange of 'Control Engineering' experience with University of Tahar Moulay of Saida (Saida, Argelia): Explanation of MISCE project and Wind Energy, Robotics and Control Engineering Devices – Jul 2024.
- Visit to University Florida Universitària (Valencia, Spain): Explanation of MISCE project and developed devices (contact persons: Pau Zamora | [pzamora@florida-uni.es](mailto:pzamora@florida-uni.es) & María Dolores Reyes Tolosa | [mdreyes@florida-uni.es](mailto:mdreyes@florida-uni.es)) – Jul 2024.
- MS Teams Video Call with University of Ibagué (Ibagué, Colombia): Explanation of MISCE project and developed devices (contact person: Jorge A. García Vanegas | [jorge.garcia@unibague.edu.co](mailto:jorge.garcia@unibague.edu.co)) – Sep 2024.
- Visit to University Rey Juan Carlos (Madrid, Spain): Detailed explanation of the device for controlling DC motors – Jun 2025.
- Institutional acts (open-door days, welcome days, companies visiting, ...) of the School of Industrial and Aerospace Engineering (Toledo, Spain): Explanation of MISCE project and developed devices – Sep 2023 to Sep 2025.
- Promoting MISCE project on 11<sup>th</sup> ELEC- European Lean Educator Conference (Rzeszow, Poland): Presentation of MISCE project – Oct 2025.
- Promoting MISCE project on ICIE, 2025 (Prague, Czechia): Presentation of MISCE project – Jun 2025.

## Journal papers and Congress contributions

- Pierluigi Rea, Lorenzo Mulas, Maurizio Ruggiu, Erika Ottaviano. (2025). Design and Test of a SCADA Teaching Testbed for Simulating Industrial Applications. In: Machado, J., Trojanowska, J., Soares, F., Rea, P., Butdee, S., Gramescu, B. (eds) Innovations in Mechatronics Engineering IV. icieng 2025. Lecture Notes in Mechanical Engineering. Springer, Cham. [https://doi.org/10.1007/978-3-031-94223-5\\_3](https://doi.org/10.1007/978-3-031-94223-5_3)
- Pierluigi Rea, Francesco Pala, Maurizio Ruggiu, Erika Ottaviano, Filippo Fois. (2025). Modeling and Simulation of a New Hydraulic Robot for Industrial Applications, in: K. Antosz, J.D. Carvalho, J. C. Vieira De Sá, J. Trojanowska, (eds) Advances in Lean Manufacturing -Volume 2 - LEAN in Action: Solutions for Operational Excellence, Springer, Cham. <https://doi.org/10.14569/issn.2156-5570>
- Pierluigi Rea, Giovanni E. Castellet y Ballarà, Maurizio Ruggiu, Erika Ottaviano. (2025). Development of an Automated Control System for Laboratory Hydroponic Cultivation,



In: D. D. Cioboată, J. Mendes Machado, International Conference on Reliable Systems Engineering (ICoRSE) – 2025, Springer, Cham. [https://doi.org/10.1007/978-3-032-02508-1\\_4](https://doi.org/10.1007/978-3-032-02508-1_4)

- Wiech, J., Antosz, K., Sęp, J., Perłowski, R., Bełzo, A., Prucnal, S. (2025). Analysis of Static and Dynamic Ball Burnishing of Aluminum: A Servo-Controlled Crank Mechanism Approach. In: Machado, J., Trojanowska, J., Ottaviano, E., Xavier, M.A., Valášek, P., Basova, Y. (eds) Innovations in Mechanical Engineering IV. 2025. Lecture Notes in Mechanical Engineering. Springer, Cham. [https://doi.org/10.1007/978-3-031-93554-1\\_14](https://doi.org/10.1007/978-3-031-93554-1_14)
- Presentation of the MISCE project results on ICIE'2025: International Conference Innovation in Engineering, Czech University of Life Sciences Prague (CZU), Kamýcká 129165 00 Praha–Suchbátka Czech Republic, Prague, Czechia, June 18–20, 2025
- Promotion of the MISCE project at the conference "11th ELEC–European Lean Educator Conference" LEAN in Action: Digitalization, Sustainability, and Operational Excellence "ELEC 2025, October, 22–24, 2025 Place: Rzeszow University of Technology, Poland
- J. Machado, J. Trojanowska, E. Ottaviano, M.A. Xavier, P. Valášek & Y. Basova Innovations in Mechanical Engineering IV. Lecture Notes in Mechanical Engineering. Springer, 2025. <https://doi.org/10.1007/978-3-031-93554-1>

## List of universities interested in joining NIEC network

- Universidad de Castilla–La Mancha (Toledo, Spain).
- Universitat Politècnica de València (Valencia, Spain).
- Universidad Rey Juan Carlos de Madrid (Madrid, Spain).
- Florida Universitaria (Valencia, Spain).
- Universidad de Jaén (Jaén, Spain).
- Universidad Politécnica de Madrid (Madrid, Spain).
- Universidad de Ibagué (Ibagué, Colombia).
- Università Degli Studi di Cassino e del Lazio Meridionale (Cassino, Italy).
- Università Degli Studi di Cagliari (Cagliari, Italy).
- Zilinská Univerzita v Ziline (Zilina, Slovakia).
- Universidade do Minho (Minho, Portugal).
- Politechnika Rzeszowska im Ignacego Lukasiewicza Prz (Rzeszów, Poland).

