

# FACULTY SEMINAR

**Date: June 12th, 2024, 10:15 AM**

**Place: Narbutta 85, NT 144**

„Towards Industry 5.0: A personal view”

prof. Rodolfo Haber, The Center for Automation and Robotics of the Spanish Council for Scientific Research (CSIC) and Polytechnic University of Madrid (UPM)



## Abstract:

Built on the pillars of human-centricity and resilience, Industry 5.0 is focused on fostering the industry towards a new paradigm that not only remains within economic boundaries but also actively contributes to well-being and sustainability. The adoption of Industry 5.0 principles is just at the beginning phase in Europe, where the paradigm is transitioning from awareness and methods development to implementation. In this conference, the industrial human needs, human factors and potential future applications are analysed, exploring the links with cyber-physical human systems and enabling technologies.

DOI:

[https://doi.org/10.1007/978-3-031-46452-2\\_8](https://doi.org/10.1007/978-3-031-46452-2_8)

The initiative of Community of Practice of Industry 5.0 (CoP Industry 5.0, European Commission) is also presented. Two case studies with applications in the industry and the recently funded Horizon Europe project FORTIS, all driven by Artificial Intelligence, are discussed. Finally, some directions and specific areas for potential future collaboration are presented.

## Position:

Ph.D. degree in Industrial Engineering from the Universidad Politécnica de Madrid, Spain, in 1999.

Researcher of the Spanish Council for Scientific Research (CSIC) since 2006.

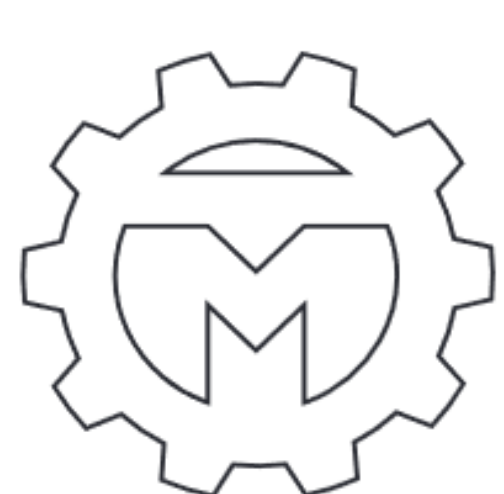
From 2020-24, he has been Director of the Center for Automation and Robotics of the Spanish Council for Scientific Research (CSIC) and Polytechnic University of Madrid (UPM).

## Professional and scientific profile:

- <https://car.upm-csic.es/author/?id=7102453392>
- <https://www.researchgate.net/profile/Rodolfo-Elias-Haber-Guerra>
- <https://scholar.google.es/citations?user=07IZQjQAAAJ&hl=es>
- <https://www.scopus.com/authid/detail.uri?authorId=7102453392>
- <https://es.linkedin.com/in/rodolfo-haber-43b82b14>

## Research and teaching focus:

cyber-physical systems, Internet-of-Everything, intelligent systems, modelling, control and supervisory systems, artificial cognitive systems, Industry 5.0



Faculty of Mechanical  
and Industrial Engineering  
Warsaw University of Technology

