



Facultad de Informática  
Universidad Complutense de Madrid

# ANUNCIO DE CONFERENCIA

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## Positioning Unveiled: From Indoor Localization to Cooperative Vehicle Positioning

Ivo Miguel Menezes Silva, Universidade do Minho

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Facultad de Informática

Aula 18 – 5 de mayo de 2026 – 17:00

*Entrada libre hasta completar el aforo*

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### Abstract:

"Accurate positioning—both indoors and outdoors—supports a wide range of emerging applications, from smart factories to connected vehicles. The seminar begins by covering the foundations of indoor positioning, exploring common technologies, techniques, and performance metrics, as well as their requirements in real-world scenarios. It then turns to the context of Industry 4.0, highlighting how positioning technologies add value in applications such as industrial vehicle tracking. The discussion explains how precise localization can streamline logistics, enhance safety in shared workspaces, and improve operational efficiency across warehousing and production processes. From there, the focus shifts to cooperative positioning between vehicles, where information sharing enables improved accuracy and reliability, a key step toward safer and more intelligent mobility systems. In this context, the seminar introduces and demonstrates both a cooperative positioning approach and a simulation framework, based on the CARLA simulator, developed to support testing and performance evaluation under realistic and controlled conditions."

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### About Ivo Miguel Menezes Silva:

Ivo Silva is a Senior Researcher at the ALGORITMI Research Center and an Assistant Professor at the University of Minho. He received his M.Sc. in Telecommunications and Informatics Engineering in 2016 and his Ph.D. in Telecommunications in 2022 through the MAP-tele doctoral program. He has co-authored numerous scientific publications and participated in several R&D projects in collaboration with academia and industry. He serves on the Technical Program Committee of the International Conference on Indoor Positioning and Indoor Navigation and acts as a reviewer for journals such as IEEE Sensors, IEEE Internet of Things Journal, and Expert Systems with Applications. His research interests include positioning and navigation, sensor fusion, machine learning, vehicle localization, and simulation.