



Universitat Autònoma de Barcelona

Departament d'Enginyeria de la Informació i de les Comunicacions

PhD position at Universitat Autònoma de Barcelona (UAB) funded by Spanish Research Agency

The successful candidate will join the research project "COTS and Learning in Nanosatellite Data Compression"

Summary:

"COTS and Learning in Nanosatellite Data Compression" is a research-oriented project. The project explores the coding of remote sensing data in nanosatellites leveraging the wider availability of Commercial-Off-The-Shelf (COTS) components on-board satellites. While COTS components are already being used by current space missions, the novelty lies in the use of COTS for computationally demanding data compression tasks. In fact, this increased computational capacity paves the way to incorporate state-of-the-art machine learning techniques for data coding too. Along with developments for on-board application, we also research on coding techniques for novel types of remote sensing data, such as astronomical or lidar data –even captured on Earth–, whose use is experiencing a blooming growth.

The main goals of the project are:

- O1) reconverge space data compression on COTS-based platforms,
- O2) research learned space data compression.

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Application deadline:

Thursday January 26, 2023, at 14h00.

More details:

<https://www.aei.gob.es/convocatorias/buscador-convocatorias/ayudas-contratos-predoctorales-formacion-doctores-2022>

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