
Special Session

Special Session on UAVs

Description/Scope

This special session will be dedicated to discussing and disseminating knowledge about the functionalities and recent advances in the field of Unmanned Aerial Vehicles (UAVs). In this sense, the authors are encouraged to propose new strategies for applying UAVs to the agricultural or urban sector, presenting the recent developments, challenges, and trends related to aerial robotics. The type of UAVs include but are not limited to multirotors, VTOLs, and hybrid configurations.

Topics (but are not limited to)

- Artificial intelligence in UAVs
- Sensory Fusion
- Path planning and autonomous navigation
- Biologically inspired and cognitive navigation
- UAV and UGV collaboration
- Collaborative navigation and swarm navigation
- Advances in view-based navigation
- Tracking of visual objects by UAVs
- Advances in precision landing techniques by UAVs
- New applications for UAVs
- UAV electronics design
- Efficiency of UAV platform
- UAVs battery swap system

Organizers

- José Lima (IPB, Portugal)
- Guido Berger (IPB, Portugal)