

AEROSPACE ENGINEERING

UAV-UGV Autonomous Multi-robotic Cooperation

Funded By	Dipartimento DIMEAS FONDAZIONE CRT CASSA DI RISPARMIO DI TORINO [Piva/CF:06655250014]
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Context of the research activity	UAV-UGV autonomous multi-robotic cooperation algorithms and systems for GNSS denied areas
Objectives	The PhD proposal concerns the development of a framework (systems, algorithms and sensors) for an hybrid aerial-terrestrial multi-robotic scenario focusing on autonomous navigation operations (localization, navigation, tasks cooperation) in complex GNSS denied areas (indoor or outdoor where GNSS is not available or reliable).
Skills and competencies for the development of the activity	A solid background in aerospace engineering, mechatronics and applied mathematics is required as a prerequisite for the present research activity. Minimum programming skills are also mandatory.