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DIPARTIMENTO
DI INGEGNERIA

CICLO DI SEMINARI DI AUTOMATICA E ROBOTICA

 AULA 4
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Fundamentals of Unmanned Aerial Systems design 27/03/2023 – 14:30

Relatore

Fabrizio Giulietti, Ph.D.
Professor of Flight Mechanics
University of Bologna

Abstract

The seminar introduces the basic concepts of electrically powered Unmanned Aerial System preliminary sizing and performance analysis.

By referring to rotary-wing configuration, with a particular focus on the widely used small-size multi-rotor, fundamentals of propulsive systems mathematical modelling, minimum weight preliminary sizing, and range and endurance performance estimation for civil applications will be addressed.

Results of relevant research case-studies related to remote sensing and suspended load stabilization will be presented.