

POLITECNICO | DIPARTIMENTO DI ELETTRONICA MILANO 1863 | INFORMAZIONE E BIOINGEGNERIA

MARCO TOGNON LINRIA OPTIMIZATION METHODS FOR AERIAL VEHICLES

This class provides a comprehensive overview of optimal control principles and their applications in aerial robotics. It introduces optimal control problems, highlighting cost functions and solution techniques, and demonstrates these concepts through four practical examples: direct force control, flight control for omnidirectional aerial manipulators, physical interaction, and stochastic control for complex tasks. By the end, participants will understand how optimization can enhance aerial vehicle performance, especially for tasks involving complex interactions and constraints.

17 November 2024 | 2:30 p.m. T.2.1 Room Building 13 (Trifoglio)

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