



**POLITECNICO
MILANO 1863**

**DIPARTIMENTO DI ELETTRONICA
INFORMAZIONE E BIOINGEGNERIA**

ANNA SCAMPICCHIO | ETH ZURICH

LEARNING-BASED CONTROL OF UNCERTAIN NONLINEAR SYSTEMS: THE VIEW FROM MULTI-TASK LEARNING

The talk addresses the integration of learning-based methods into model-based control to overcome limitations of first-principles models in regulating complex dynamical systems, emphasizing system identification, uncertainty handling, and robust control design. It presents innovations in multi-task learning and computational efficiency, with experimental validation on real-world robotic systems.

**27 November 2024 | 03:00 p.m.
Emilio Gatti Conference Room
Building 20**

Contacts:
lorenzo.fagiano@polimi.it