


Robot Learning: A Tutorial

Francesco Capuano   Adil Zouitine  Pepijn Kooijmans  Steven Palma  Martino Russi  Caroline Pascal  Thomas Wolf  Michel Aractingi 

 Hugging Face,  École Normale Supérieure Paris-Saclay

Abstract



Hugging Face

Recent advancements in foundation models have enabled unprecedented progress in robotics. Leveraging learning-based approaches, the community has produced the first generalist models for tasks such as manipulation and whole-body control, with many results openly released. This work presents a comprehensive tutorial on modern robot learning, introducing the conceptual underpinnings of the most prominent approaches and pairing them with reproducible implementations using the open-source LeRobot framework. The tutorial is designed to serve both as a structured academic reference and as a practical guide for researchers in the field of robot learning.

References