

1. Record Nr.	UNINA9910346956503321
Autore	Wächter Mirko
Titolo	Learning and Execution of Object Manipulation Tasks on Humanoid Robots
Pubbl/distr/stampa	KIT Scientific Publishing, 2018
ISBN	1000078313
Descrizione fisica	1 online resource (X, 236 p. p.)
Collana	Karlsruhe Series on Humanoid Robotics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Equipping robots with complex capabilities still requires a great amount of effort. In this work, a novel approach is proposed to understand, to represent and to execute object manipulation tasks learned from observation by combining methods of data analysis, graphical modeling and artificial intelligence. Employing this approach enables robots to reason about how to solve tasks in dynamic environments and to adapt to unseen situations.