

Workshop on Robotic Manipulation of Deformable Objects (ROMADO)

2020 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)

-- Invited talk 1 --

Title: Controlled within-hand sliding

Speaker: Berk Calli

Bio: Berk Calli is an Assistant Professor at Worcester Polytechnic Institute (WPI). His research primarily focuses on problems related to robotic manipulation, which is a key functionality largely missing from the current state of the art in robotics for unstructured environments, including homes, modern warehouses, and collaborative manufacturing stations. He develops multi-modal robotic manipulation strategies mainly focusing on the role of vision feedback for coping with uncertainties of unstructured environments. He integrates advanced control methods, active vision framework, machine learning and intelligent mechanical design to provide robust dexterous manipulation capabilities. Berk obtained a PhD degree from Delft University of Technology. Prior to WPI, he worked in the Grab Lab at Yale University on robust within-hand manipulation techniques. He is also one of the founders and the main administrator of the Yale-CMU-Berkeley (YCB) object set project, which facilitates benchmarking efforts worldwide for robotic manipulation. His current focus is to utilize robots in sustainability projects (e.g. sorting for recycling) by solving complicated manipulation problems therein.

Speaker Website: <https://www.wpi.edu/people/faculty/bcalli>

Workshop Website: <http://commandia.unizar.es/irosworkshop2020/>

Conference Website: <https://www.iros2020.org/>