

Sponsoring

Project COMMANDIA (SOE2/P1/F0638) is partially supported by the Interreg Sudoe Programme, which is financed by the European Regional Development Fund (ERDF).

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2018 - 2021

COMMANDIA

Collaborative
Robotic Mobile
Manipulation of
Deformable
Objects in
Industrial
Applications

Interreg 
EUROPEAN UNION

Sudoe

COMMANDIA

European Regional Development Fund

Motivation

- Industrial automation is vital for improving competitiveness of companies and quality of working conditions.
- Today, many tasks involving deformable products are performed manually.
- These tasks can cause ailments or injuries, be uncomfortable and even risky for human operators.

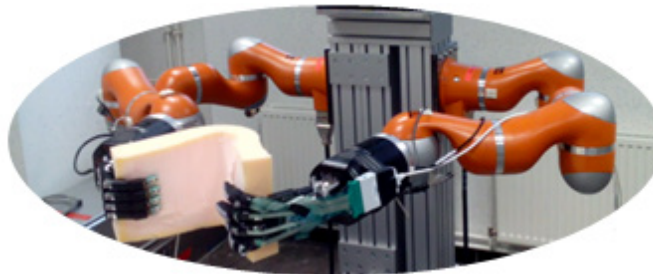


Framework

There are many strategic industries that handle deformable products, such as food, clothing, toys or leather goods. The automation of the handling and processing of deformable products is an important technological challenge due to the variability of these products.

Goals

The main goal of this project is to improve the competitiveness and work conditions of industries where deformable objects have to be manipulated directly by human operators in order to control their shapes during production.



This project proposes to develop and disseminate a set of new techniques and technologies in robotic perception, control and planning for dynamically handling deformable objects with a group of collaborative mobile manipulators. These new robotic functionalities will be applied in several industrial tasks of special relevance identified by the industrial partners in the food and footwear sectors.

The partners

Partners from across the SUDOE space have joined efforts to develop COMMANDIA project

