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Manipulation Enhancement through Robotic Guidance and Intelligent Novel Grippers



A European project that aims at creating a robotic platform that can manipulate soft materials in industrial environments, by pioneering new robotic gripper and technologies with application of artificial intelligence



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 869963.

## The three industrial use cases



Textile and garment industry

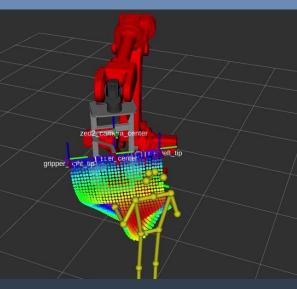


Food packaging industry



Composites for automotive industry

"The MERGING project aims to provide manufacturers with a versatile, easy-to-use and low-cost solution to automate or assist the handling of flexible and fragile objects. By addressing challenges such as handling of soft materials using robots, developing handling devices which are intelligent and universally dexterous, and making future robots capable of handling soft products while controlling their level of deformation, it will lead to disruptive innovations in many sectors."



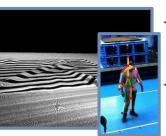
## The enabling technologies



Dexterous gripper equipped with electroadhesion skin







- Deformable object detection and synthetic datasets
- Human tracking and activity recognition
  - Learning based teaching methods





- Haptics comanipulation
  - Orchestration and handling controlling tools





Model-based comanipulation

and more...