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www.softmanipulation.eu

## **Project description**

Soft Manipulation (SOMA) opens a path of disruptive innovation for the development of simple and compliant, vet strong, robust and easy-to-program manipulation systems.

SOMA project explores a new avenue of robotic manipulation in real environments, exploiting the physical constraints imposed by the environment to enable robust grasping and manipulation in dynamic, open, and highly variable contexts.

New Soft Hands will be designed for the versatile and competent exploitation of Environmental Constraints, and the development of robust, cost-effective, and safe robotic grasping and manipulation capabilities.

## Use cases

Project achievements will find natural application in industrial robotics. SOMA will apply the results, as test beds, to an open manipulation problem in the food and agriculture industry, that is the handling of irregularly shaped, flexible, and easily damageable goods, such as fruit and vegetables.

Another application will involve a security problem in a field, such as that of entertainment, where physical interaction between human and robots would add a considerable amount of value to the experience in terms of fun.





















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