Pick-a-Future

Next generation fresh fish picking system and special quality control

- Sustainable Production
- Digitalization
- Human-Machine Collaboration
- Robotics

A project by

eit Manufacturing

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Project consortium

cea KUKA Logomark

SIEMENS SONAE MC

Summary

Pick-a-Future provides a Human-Robot Collaboration solution for a quality checking and picking process for retail manufacturing. It combines practical challenges that are tackled by several technical innovations.

The AI-based robot picking system uses 3D scan and localisation combined with a new gripper that was developed to handle flexible and slippery goods without damaging them.

Moreover, the system uses optical hyperspectral imaging in the near-infrared region, which enables the identification of organic molecules via absorption spectroscopy for quality control.

The overall integration aims to be used in the food industry and focuses on fish manipulation and inspection of diverse sizes, shapes, appearance, and deformability of the handled goods. Food industry companies are welcome to scale up the solution in possible post-projects.

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