



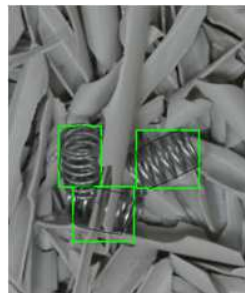
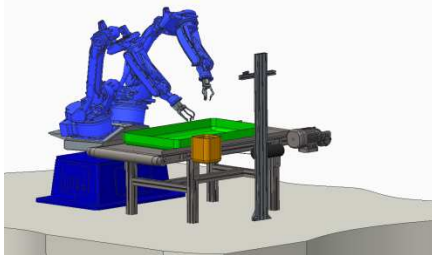
RadioRoSo

Radioactive Waste Robotic Sotter



Objectives

- ▶ Demonstrate robust autonomous or semi-autonomous **sorting of nuclear waste**.
- ▶ Aiming at **reduction of cost** of nuclear plant decommissioning operations, by improving process throughput.
- ▶ Improve **health and safety of workers** in such operations currently tedious and error prone.



Results

- ▶ Vision-based **localization and grasping** of variety of objects in clutter.
- ▶ Low cost radioactivity-based **hot-spot localization**.
- ▶ Novel radioactivity-proof **gripper**.
- ▶ Detection and sorting of **soft material** (garments, cables etc.)

Project Facts

- ▶ Funded by EC under the umbrella of FP7 project ECHORD++ (www.echord.eu).
- ▶ Consortium:
 - ▶ Center for Research and Technology Hellas (GR)
 - ▶ Czech Technical University in Prague (CZ)
 - ▶ National Radiation Protection Institute (CZ)
 - ▶ University of Genova (IT)
 - ▶ Ansaldo NES (UK)
- ▶ For more info:
 - ▶ Web-page: <http://radioroso.ciirc.cvut.cz/>
 - ▶ Youtube: [Youtube channel](#)
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