



EURO-CARES WP3 Meeting

Designing a European Extraterrestrial Sample
Curation Facility

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Robot Handling and Robotic Inspection - Profactor's Expertise

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Nowadays robotic skills in production systems are mainly pre-programmed in robot applications. Even in state of the art binpicking systems extraction strategies are hardcoded to meet requirements from environment, tools and objects. This also applies for the manipulation task itself, the gripping position; contact points, forces applied on the handled component has to be derived from the example taught by the human. The talk will present different approaches to make the process more flexible by (a) digitizing the objects online, (b) support the grasp approach by modeling the environment and limit the programming effort during task planning and execution. The applications covered are manipulation of industrial objects and different robotic inspection use cases.