Graz University of Technology
Institute of Technical Informatics
Cognitive Products

Student Topic: Object Tracking for Conveyor Belts in Sorting Sites

In this project, the student should help us in developing a system to detect objects on conveyor belts. This involves several complications, e.g., the objects overlap, always look different, the speed of the conveyor belt changed dynamically, and so on. We use camera system to visually record the objects and want to be able to distinguish and classify them at runtime. Furthermore, they should be identified with lightsignals coming from a project from above.

Goal and Tasks:

- Literature-Research on state-of-the-art object tracking methods.
- Implementing and evaluating them on a site together with our industry partners.

Recommended Prior Knowledge:

- Basic programming skills, such as Python, C, or C++.
- Basic skills in computer vision and computer graphics.
- Optional: Experience in object tracking and classification

Start: a.s.a.p.

Duration in months: 6-12 months

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