Object Detection for Asset Monitoring

Asset tracking and monitoring are becoming fundamental for e-commerce companies. Nowadays, monitoring solutions exploit standard sensors and processing techniques, thus limiting the accuracy of the result.

Smart sensors such as low-cost cameras with on-board processing capabilities can improve the system's reliability without impacting energy efficiency. Cameras can automate the picking phase by detecting objects that compose the pack and identifying damage during the transportation phase.

This thesis aims to use novel object detection techniques on smart cameras (e.g., https://openmv.io/collections/cams/products/openmv-cam-h7-plus) with state-of-the-art datasets for object classification in a box.