Challenge - Industry 4.0

Continental Automotive Spain, S.A.

ARTIFICIAL INTELLIGENCE APPLIED TO DETECTION OF OBJECTS IN STORE

The objective is to detect presence or absence of pallets in stock at 250 locations to automate the material request. A budget has been made to install individual sensors and a small visualization application with a total cost of about € 35,000 plus associated maintenance. It is proposed to install several cameras equipped with central processing units that are able to detect the status of the locations autonomously and report digital signals to a database, thus avoiding sending images or videos through the network. The objective would be to provide a framework through which we were able to install new cameras or change the location of those we had and be able to re-teach the algorithm by ourselves. Critical points to take into account: lighting changes, different forms of pallet loads, temporary occlusions by people or trucks ... The solution has to be able to work without an internet connection.