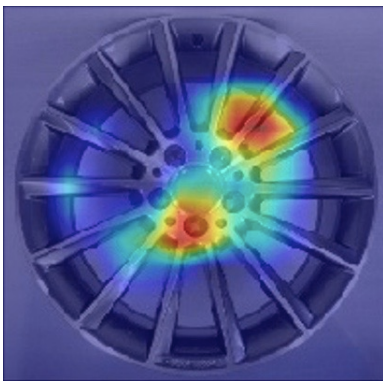


Use Case Monitoring Palletizing Process



Customer Tier 1 Supplier of Rims to Automotive Companies

- Need** The customer needed a solution to monitor rim palletizing process and alert workers in case of pallets with mixed rims. Due to human error mixed pallets were occasionally shipped to customers which were then returned and created extra cost.
- Challenge** Reliable monitoring even in low light situations.
Due to privacy concerns, employees' heads, hands or arms could not be recorded and needed to be blocked before the images are analyzed.
- Solution** A high-resolution camera records the pallets. The images are analyzed with four convolutional networks in series to detect incorrect rims and block out human shapes.
- Process** We developed four convolutional networks: the first detects the location of the pallets on the floor, the second one detects rims on the pallets, the third identifies the rim model and the fourth detects and blocks out human shapes.
- Outcome** Shipments of incorrect/mixed pallets is reduced saving our customer costly returns of whole pallets.
Fewer returned pallets also cut cost and additional work at the end customer ensuring good continued working relationships.



Prediction:
 Product XY 98%
 Product AB 2%

Classification:
 Product type is XY

Contact Us

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