The future of retail store operations!

Meet StoreBot, the robot that sees and analyses your store’s shelves. StoreBot visualises the condition of a retail store’s shelves in real time and is the key to eliminating inventory and pricing discrepancies.

StoreBot is a fully autonomous robot that navigates the aisles of a store, takes pictures of the shelves and, thanks to AI technologies, detects anomalies: out-of-stock products, misplaced items, missing price tags or wrong prices. Out-of-stock products are a major problem for retailers and suppliers alike as it is estimated that they lose €900 billion in revenue every year due to this issue.

In the future, StoreBot will perform additional tasks like re-shelving, guiding customers through the aisles, taking 360° views for online shopping. StoreBot is truly the future of retail!
• Fully autonomous
• Easy set-up
• High accuracy
• Immediate ROI

2021
• StoreView (360° view of a store with possibility to shop directly via the images)

2022
• Re-shelving capability

Artificial intelligence is a basis for our recognition algorithm but in order to analyse a large number of products, we will first use a feature-based recognition method similar to the Bag-of-Words approach. All the reference images are analyzed to detect features and an inverted index is created. For a query image, features are detected and best matches in the index are found. In order to improve performance and robustness a neural network is trained to compute the best informative features.

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