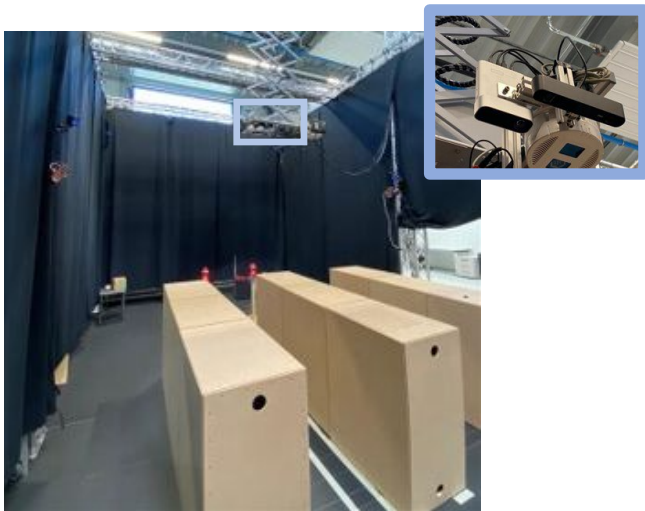




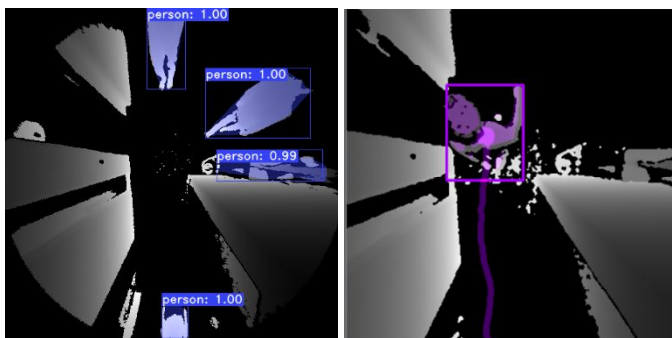
SMART BUILDING MANAGEMENT DEMONSTRATOR

« SELLING » STATEMENT:

A novel multi-lane access control application for high-reliability/security and high-traffic access control based on a high-resolution 3D-ToF sensor and an embedded deep learning person detection and segmentation algorithm.



Demonstrator set-up and Wide-FOV 3D sensors used in VIZTA



Visualization of Embedded Algorithm Outputs

KEY FEATURES

Embedded high-performance deep-learning algorithm for person detection and segmentation based on 3D ToF data (NVIDIA Jetson Xavier platform)

Proven feasibility of integrating embedded deep learning algorithm into smart building camera system architecture

Launch of novel multi-lane high-traffic access control function into IEE Smart Building sensor product portfolio

2 peer reviewed scientific papers on international conferences

Deep learning algorithm for 3D *person detection in buildings*.

First publication on *anomaly detection* in buildings using depth data.

Public building management dataset “VIZTA Timo”

(see <https://vizta-tof.kl.dfki.de/>)

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