

An AI based inspection system can reliably identify complex situations in real-time and clearly identify previously trained features (e.g. safety helmets & vests) - even under difficult viewing angles, light situations, weather conditions.

Objects with similar characteristics, which have not previously been explicitly taught (e.g. other brand), are also recognized.

letsgo@wahtari.io

Identify Personal Protective Equipment

Powered by AI image processing.

Areas of application

Artificial Intelligence as a tool for „Personal Protective Equipment“ detection



Helmet

Workers with and without helmets are identified. No confusion with other headwear (e.g. cap, hat).



Safety Vest

Various types of vests are identified regardless of the manufacturer and lighting conditions.



Eye Protection

A variety of masks and protective eyewear are detected. Can be distinguished from sunglasses, ...



Lokalization

The exact position of each worker can be determined simultaneously, even with a large number of employees.



Virtual Check-Ins

Workers are counted when entering and leaving the building or terrain.

Advantages of Wahtari AI systems

AI model | AI software | AI hardware



Unique Identification

No mixing up with normal clothing, headgear, etc.



Improve security

Automated checking of predefined security standards.



Easy Adjustment

New characteristics can be easily trained at any time



Reduce Staff Workloads

Construction machine operators are made aware of safety risks.



Seamless Integration

Plug & Play. Keine Programmierkenntnisse notwendig.



Real Time

Fast reaction to dangerous situations through real-time analysis.

Modern AI systems offer many possibilities to increase safety in the construction industry and to lighten the workload of employees. With the help of deep neural networks, they are trained to recognize people, safety equipment and construction machinery in order to detect dangerous situations before they occur. AI systems help to significantly speed up the processing of sensor data, as well as a practically error-free situation analysis with a accuracy rate of over 99%.

Serious accidents occur in the construction industry every year, one in nine of which are related to machinery. The blind spot is a

particular danger when using construction machinery. At no great expense a camera system can support the vehicle driver, transmit a warning signal to the cockpit or automatically stop the vehicle in an emergency.

Image analysis systems in combination with artificial intelligence offer numerous other opportunities for the construction industry 4.0:

- Automated check-ins on entering the construction site
- Managing bottlenecks of machines and manpower
- Record stock levels automatically

KI Partner Wahtari

We provide you with ready-to-use AI systems that are tailored to the real conditions of your company. Our optimized pipeline enables us to realize projects for any budget.

We support your business to benefit from the opportunities of cutting-edge technology and setting yourself apart from your competitors.

About Wahtari

- Experts for AI based image recognition
- Experience in many different industries
- Always the latest technologies (updatable)
- Hardware and software from one source