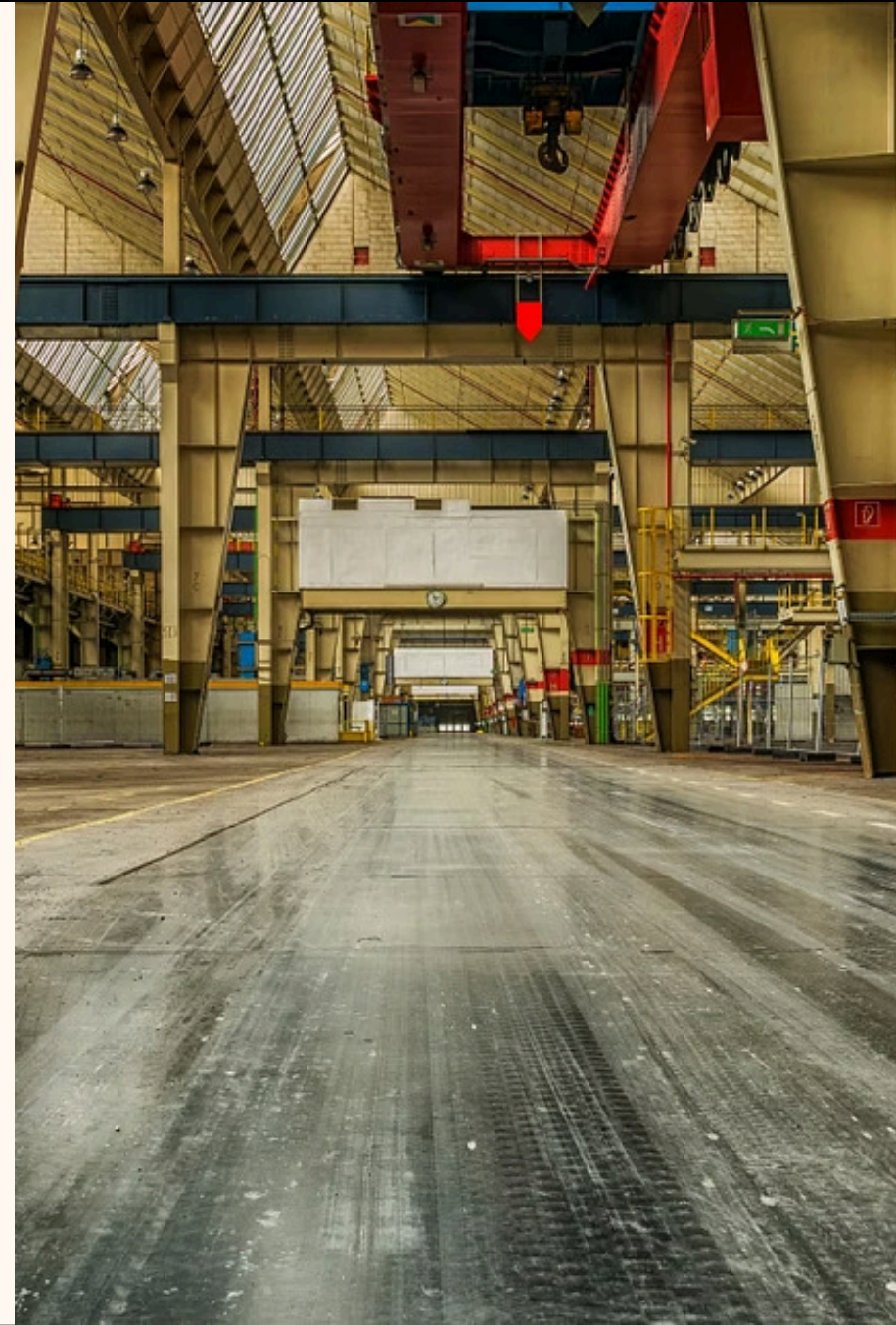




rsIA - visual AI solutions for PPE detection and access control

Visual artificial intelligence solutions for the automatic detection of personal protective equipment in workplaces and access control in critical environments



rsAutomazione: Our AI Solutions

Our consolidated experience in industrial automation, process optimization, and the digitalization of production systems has positioned us as a leader in providing technological tools and services for the manufacturing sector.

Artificial intelligence is the ideal tool to apply our know-how by developing innovative solutions specific to access control and real-time verification of PPE presence by operators in critical production environments such as pharmaceutical cleanrooms, production departments, and construction sites.

The value of AI emerges when it is adapted, trained, and customized to meet the specific needs of each particular production and industry regulations.

Total Customization

Not just software, but a solution custom-built for your operational needs.

Maximum Flexibility

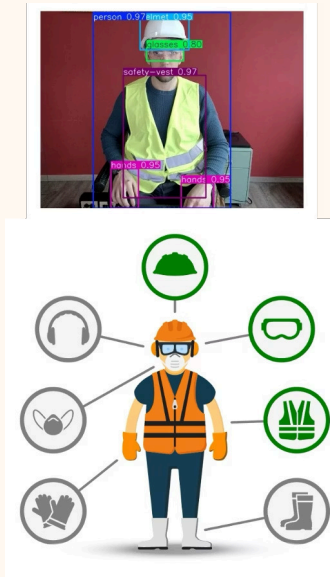
We train the system based on your processes and industry regulations.

Strategic Partnership

A technological partner by your side to develop the perfect tool for your reality.

AI that adapts to your company, not the other way around.

rsIA: PPE verification and access control



Real-time verification of personal protective equipment and access control.

rsIA is a **cutting-edge artificial intelligence tool designed for access control and automated verification of personal protective equipment (PPE) and specialized clothing in critical environments, ensuring compliance before entry and during work activities.**

- Verifies complete and correct dressing (protective suits, gloves, masks, caps, helmets, safety glasses) as required by industry regulations.
- Control can take place before access to production areas, sterile zones, high-risk environments, and sensitive areas, or in real-time during personnel operations.
- The system operates completely offline, directly on the client's systems, to ensure maximum security and privacy.
- The flexible architecture allows for easy integration with existing systems.
- Each implementation will be customized and trained to adapt to specific operational needs.



Smart Access Control

Automated verification of required equipment according to industry regulations before entering critical areas.



Real-time Monitoring

Continuous analysis to ensure strict compliance with protection protocols.



Control for Sterile Areas

Dedicated and optimized solution for critical environments: pharmaceutical cleanrooms, production departments, construction sites, and sensitive areas.

rsIA: The AI verification process



Acquisition and computer vision

Cameras acquire high-resolution images. **Computer vision** analyzes positions and shapes, identifying the components of the required clothing in real-time.



AI recognition algorithms

The **deep learning** algorithms recognize specific garments (suits, gloves, masks).



Multi-sector compliance database

The system compares the detected equipment with a database containing **detailed protection rules** for each specific area, sector, and applicable regulation.



Validation and real-time feedback

Compliance verification occurs in **real-time**. The system provides immediate feedback, ensuring efficient and uninterrupted access flow.



Alerts and access blocking

In case of non-compliance, a useful **alarm** is generated, for example, to block access, preventing unauthorized or non-compliant entry to critical areas.



Existing systems integration

rsIA integrates with **existing access control systems**, leveraging standard APIs for flexible and secure connectivity.

rsIA: Strategic Value

rsIA offers competitive advantages by ensuring regulatory compliance, operational safety, and process optimization.



Multi-sector Regulatory Compliance

Ensures adherence to sector-specific regulations.



Reduction of Operational Risks

Minimizes risks of contamination, accidents, and security breaches in critical environments.



Access Control Automation

Automates pre-access clothing verification, eliminating human error and accelerating processes.



Traceability for Audits

Provides records of every access and verification, simplifying audits and inspections.



Reduction of Operational Costs

Decreases costs associated with non-compliance and delays.



Integration with Existing Systems

Integrates seamlessly with existing IT and access control systems, optimizing workflow and efficiency.

rsIA: Implementation Roadmap





Thank you for your attention

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