Pokaiok: Your Quality Control Digital Twin

AI Video processing for anomaly detection in industrial environments

PRODUCTIVE SECTOR: Industrial competitiveness and resilience

PROBLEM DESCRIPTION

Real-time AI video processing for robust anomaly analysis.

CHALLENGES AND GOALS

- Creation of a database available to the scientific community.
- New generative AI tools for improved anomaly detection efficiency.
- Easy-to-deploy digital twin for on-site use.

MATHEMATICAL AND COMPUTATIONAL METHODS

POKAIOK IIoT offers an innovative solution based on trusted embedded AI systems, enabling the analysis of vision sensor data to optimize the deployment of quality control and predictive maintenance in production processes.
Built on three pillars — trusted AI performance, ease of implementation and responsiveness — POKAIOK IIoT allows industrial players to deploy quality control and product traceability while meeting cybersecurity requirements.

Pokaiok all included suitcase

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Results and Benefits

Inspired by real-world operations, POKAIOK enables industrial players to independently ensure their quality control while gaining agility, accuracy, and ease of deployment.

Personalized
Real-time Anomaly Detection

A significant advancement in our AI core computational algorithms opening the way to a best-in-class personalization algorithm for industrial environments.

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