

STAR

SAFE AND TRUSTED HUMAN CENTRIC ARTIFICIAL INTELLIGENCE IN FUTURE MANUFACTURING LINES

Explainable AI

Why did you do this?

- Explain to Factory Workers and Quality Engineers the rules and principles of the AI systems operation
- Increasing Transparency and Trust on AI Systems

Active Learning

Robot-to-Human: Is this piece defected?

- Query human where not sure what to do next!
- Accelerate Knowledge Acquisition for AI

Human-Centric Digital Twins

What-if-Analysis with the Human-in-Loop?

- Simulation & Detection of Safety Issues
- Optimal Deployment of Automated Mobile Robots
- Detection of Safety Zones

Simulated Reality

Shorten Reinforcement Learning Cycle

- Simulate the next actions of Reinforcement Learning than expecting convergence

(Cyber) Security for AI Systems

Protection of AI Systems against Adversarial Attacks

These technologies are validated in challenging scenarios in manufacturing lines, in the areas of quality management, human robot collaboration and AI-based agile manufacturing



VISIT OUR WEBSITE
www.star-ai.eu

FIND US ON

CONTACT US
info@star-ai.eu

[@starAI_eu](https://twitter.com/starAI_eu)

PROJECT COORDINATOR
Netcompany-Intrasoft

[in](https://www.linkedin.com/company/star-eu-project) STAR EU Project

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