NAME
Collaborative and Adaptable Mobile Manipulator

CHALLENGE
Collaborative operations with humans / Increase process reliability/
Ergonomics and safety

SOLUTION
Autonomous mobile robotic systems equipped with collaborative manipulators easily adaptable to distinct tasks regarding internal logistics and assembly. The mentioned robotic systems are also equipped with sensors allowing for obstacle detection and object recognition. Integration with a digital twin representation of the factory’s shop floor.

APPLICATION
Aeronautical industry (EMBRAER): executing kiting operations inside a logistic warehouse, autonomously and in a collaborative fashion, alongside other human operators.

TECHNOLOGIES
Business Intelligence & Decision Support Systems
Cyber Physical Systems (CPS) & Internet of Things (IoT)
Advanced Automation Control & Industrial Robotics

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