ROBOTISATION

This focus area is primarily intended to ensure the installation, programming and case studies of industrial robots. In line with today's requirements, industrial robots are also being integrated into logistics processes, thus increasing productivity, and such systems are suitable for compensating for labour shortages.

COMPETENCIES

- Assessing processes carried out with human labour
- Planning the installation of industrial robots
- Robot programming, creating simulations
- CAD (Computer Aided Design) based modelling of workspace elements
- Design of individual, workpiece and task-specific robot grippers
- Image processing system adaption to a robot
- Preparation of case studies of robotic processes

SERVICES

- Preparation of case studies on robot-solved tasks
- Robot programming course at basic and advanced levels
- Simulation of a task performed with a robot, process optimization

TOOLS

- Fanuc LR Mate 200iC industrial robot
- KUKA KR15-2 industrial robot, 3 KUKA KR210-2 industrial robot
- Festo MPS system, pneumatic positioning carriage, RVJ-2 Mitsubishi industrial robot

REFERENCES

- Case studies for robotic assembly processes (Robert Bosch Power Tool Kft.)
- Installation of a Kawasaki robotic cell suitable for powder coating of pipeline fittings (Ferona Kft.)
- Postprocessor development for a KUKA KR15/2 industrial robot

MISKOLCI EGYETEM
UNIVERSITY OF MISKOLC

Technológia- és Tudástranszfer Igazgatóság
techtransfer@uni-miskolc.hu

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