

Center of Excellence for Smart Production

University of Applied Sciences Upper Austria, Campus Steyr

Intelligent production processes lead to intelligent products. Such products are not only the guarantors but also the prerequisites for the competitiveness of companies in the future. As an innovative business partner, the Center of Excellence specialises in research and transfer related to smart production. Coordination and networking of all relevant departments facilitates a lively exchange of information between the Hagenberg, Steyr and Wels campuses with regard to R&D as well as bachelor‘s and master‘s theses. Pilot projects and demonstration projects related to the theme ‘Innovative Applications for the Digitisation of Production’ are being carried out together with Upper Austrian businesses.

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Services

For private sector:

- Trainings
- Feasibility Studies
- Research Studies
- Research Projects
- Individual Industrial Projects

For public sector:

- Trainings
- Feasibility Studies
- Research Studies
- Research Projects

Equipment / infrastructure

- Informatics
- Communication
- Media



- Business & Management

- Technology
- Applied Natural Sciences

Hagenberg:

- HeuristicLab (open source software for optimisation and data analysis)
- PPOV-Cockpit (software for optimisation and visualisation of production data)
- Cloud and high performance computing
- Mixed Reality Lab
- Surface Hub
- Cardboard engineering

Wels:

- 3D printing equipment (metal, plastic, plaster)
- 3D digitising
- Machine tools (milling, turning, forming)
- Plastics processing facilities
- Industrial and lighweight robots
- Parts transfer system
- Programmable controllers
- Various data transfer systems and sensors
- HMI and communication systems for process tracking
- Programming and simulation systems for robots
- I mage processing systems
- X-ray computed tomographs

Steyr:

- Simulation generator SimGen
- Workshop production planning
- Virtual reality hardware
- Augmented reality smart glasses
- OptiTrack motion capture system
- Industrial camera with Machine Vision software

Best practices / case studies of cooperation

For best practices and projects see here.

Keywords

Internet of Things, Business Analytics / Prescriptive / Analytics, Assistance Systems, Human-Centered Technologies, Operations Management, Additive Manufacturing, Product Development