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Artificial Intelligence in Industrial Applications

Expect these Contents

The modern world is characterized by computers that facilitate our daily lives. Most of these computers and devices use Artificial Intelligence to do so.

This Summer School introduces the fundamentals of Cyber Physical Systems, Network Infrastructure, Innovative Sensor Systems and Data Integration to provide a comprehensive understanding of data acquisition in an industrial context, as well as a training in programming languages and tools commonly used for industrial AI, such as Python, scikit learn, and TensorFlow (Keras).

Deep Learning, Python and various topics related to Industry 4.0

- ▶ Understand Key AI concepts such as machine learning, deep learning, reinforcement learning and time series processing
- ▶ Apply Supervised Learning in Predictive Quality
- ▶ Perform information integration in industrial networks
- ▶ Assess the potential of data driven solutions for industrial scenarios
- ▶ Master programming basics in Python

Quick Facts

- 2, 3 or 4 weeks**
- On campus or online**
- Credit Points: 2 - 5 (ECTS)**
- Upon request**



Interactive Teaching

- ▶ Transformation of the industry in terms of Industry 4.0 through IoT
- ▶ Understand Data Science libraries such as Pandas and Scikit-Learn
- ▶ Implement Machine Learning algorithms for Unsupervised Learning Techniques



Your Academic Staff

Your Short Course is mainly conducted by the Laboratory for Machine Tools and Production Engineering (WZL) from RWTH University. The WZL is a research institute consisting of four chairs of the engineering discipline mechanical engineering in the field of teaching and research for production engineering.