

IDP: AI in Computer-aided Manufacturing

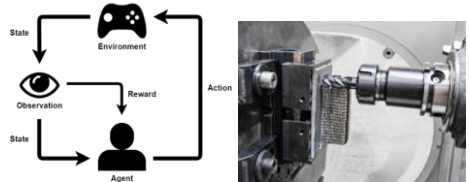
Motivation

The use of artificial intelligence in process planning is becoming increasingly important. Especially in complex hybrid process chains, e.g., in the production of additive manufacturing processes (WAAM) and their subsequent post-processing, there is great potential for applying computer-aided methods.

Task description

You are passionate about the use of artificial intelligence in machining and you already have some experience in using API applications. Then we are looking for you!

As part of this work, in-depth research is first carried out with a focus on previous applications of reinforcement learning (RL). The aim is to build a functional RL framework in a Python environment, taking into account an API.



Left: RL-Framework, right: machining

Requirements

Interest in artificial intelligence methods as well as a self-initiative, reliable, organized way of working, and very good German and English skills.

Contact

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