

AI and ML in Manufacturing: The DIGITbrain project - use cases and challenges on ICT infrastructures

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The DIGITbrain project aims to enable customised industrial products and to facilitate cost-effective distributed and localised production for manufacturing SMEs, by means of leveraging edge-, cloud- and HPC-based modelling, simulation, optimisation, analytics, and machine learning tools and by means of augmenting the concept of digital twin with a memorising capacity towards recording the provenance and boosting the cognition of the industrial product over its full lifecycle, and empowering the network of DIHs to implement the smart business model “Manufacturing as a Service”.

As can be seen from the project description, DIGITbrain wants to span edge computing to high-performance computing in order to more efficiently create and utilize digital twins for rendering manufacturing more agile. Part of DIGITbrain are use cases, so-called application experiments. The talk will introduce the project’s motivation, goals and planned architecture, exemplify some of the use cases and hint at challenges towards ICT architectures in this setting.

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Session Classification: AI and Machine Learning experiences