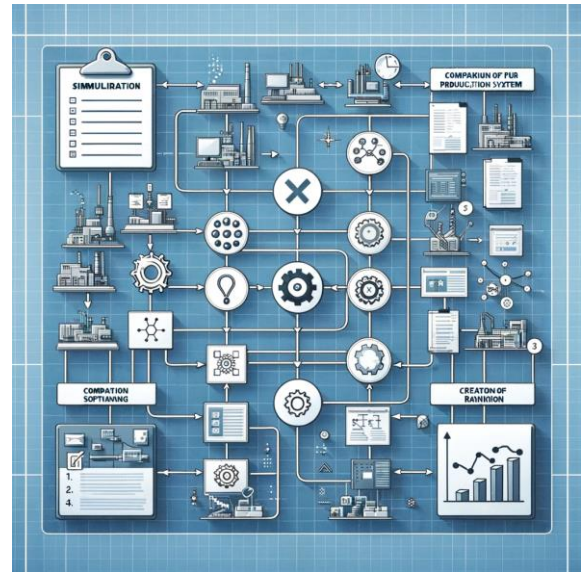


Technical Project (Master) or Bachelor Thesis

Comparison of simulation software for production systems and their integration for digital twins

The aim is to compare simulation software with regard to its suitability for production system simulations and integration into systems for the use of digital twins. An overview of software solutions is needed and the implementation potential for Industry 4.0 evaluated.



Project Tasks

- Selection and evaluation of simulation software for production systems.
- Comparison of software concerning integration and use of digital twins.
- Creation of a ranking and guidelines for software selection and implementation.

Field of Study

- M&D, IBS (for Bachelor thesis)
- Mechanical Engineering (Master project)

Qualification to improve (or to gain)

- Expertise in simulation techniques and digital twins.
- Critical analysis and comparison of software.
- Integration techniques for software systems.
- Scientific methodology and presentation.
- Programming skills (C++, Python, Java) and understanding of production processes.
- Independent learning and analytical thinking.

Contact

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