

Generator for Research Oriented Workflows (GROW)

Enabling Industries Through Automated Data Preparation Workflows for PBF-LB/M



Motivation and Relevance

- Data preparation influences the productivity and quality of downstream process. For instance, nesting and part orientation directly impact both printing and post-processing.
- However, due to conflicting goals decision-making in data preparation is prone to error and hard to optimize

Approach

- Generation of different data preparation scenarios by varying parameters in orientation finding, slicing, hatching, supporting and post-processing steps
- Establishing of interfaces between software tools to allow for the optimal combination of data preparation functions

Results

- By examining various scenarios in data preparation in an automated way their effects on the printing process, final product quality, and post-processing, the optimal data preparation scenario for a given use case can be determined

Productivity



Quality



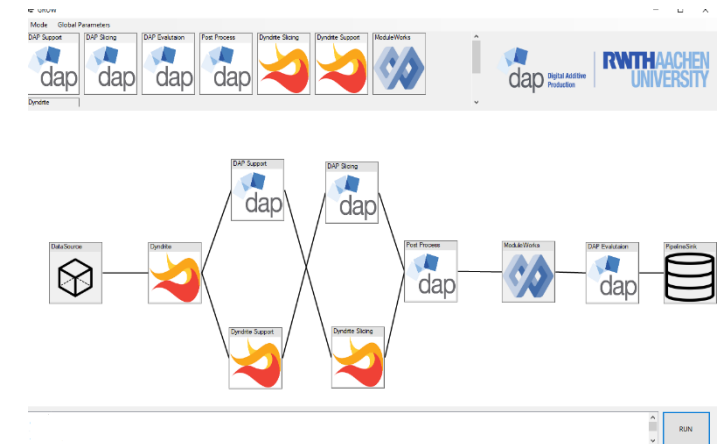
Less Manual Effort




Research Area

- Data Preparation
- Digital Manufacturing
- Optimization

Picture



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