Design Configurators of Different Applications for Interactive Use

Automation of Product Development by Digital Assistant Systems

Motivation and Relevance

- Additive manufacturing enables complex product designs
- Conventional CAD comes to its limits to address innovative design methods
- Designers and manufacturers of complex and variant-flexible components need automated solutions

Approach

- Various software applications or in-house solutions were developed to set up design configurators for different applications (copper windings, fan-wheel, façade brackets, hydrogen burners, hydraulic blocks, …) and, thus, automate the design process.

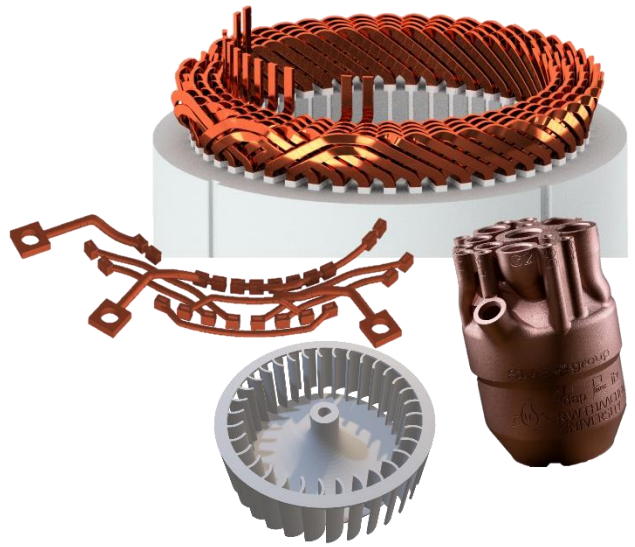
Results

- Data regarding product properties, physics and manufacturing restrictions is transferred to a design algorithm and a link to simulation can be established
- Data driven design configurators can be used by any designer to create production-ready models

Research Area

- DfAM
- Design Automation
- Digital Assistant Systems

Picture



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