

IGF-Project PolyPro 3D



Motivation and Relevance

- FDM and SLS part often have poor surface quality and need to be polished before end use
- State of the art processes bring in foreign particles, have low polishing results or need a lot of manual labour

Approach

- The outer layer is melted with a laser and surface tension smoothens parts
- Influence of print parameters on surface quality after polishing need to be investigated

Results

- With Laser polishing parts can be polished fully automatic without chemicals or inducing foreign particles
- Parts can be printed faster and cheaper
- Mechanical properties are improved

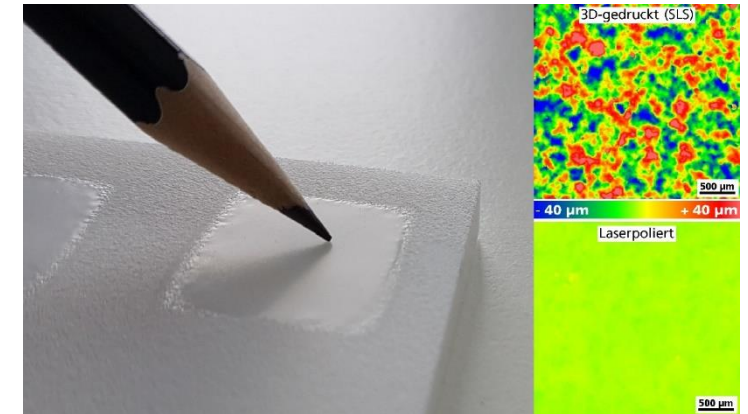
Research Area

- Postprocessing
- Laser polishing

Partners



Picture



Contact



Lukas Hedwig
hedwig@fh-Aachen.de
goethelab.fh-aachen.de