

Project Characteristics

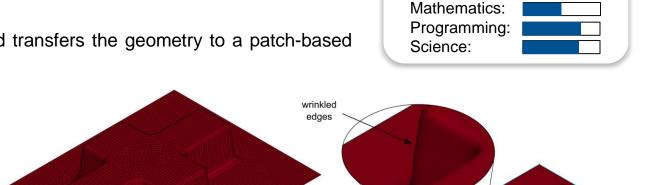
Modeling:

Ontology-aware Reverse Engineering of FEM Meshes

Task

Develop a workflow that imports Finite Element meshes and transfers the geometry to a patch-based CAD model:

- Get to grips with Python and helper modules [1]
- Execute a Data Analysis to make design features automatically detectable
- Derive component substructures and generate ruled surfaces
- Test and adapt existing algorithms for the generation of NURBS surfaces



multiple patches

