Chair of Computational Modeling and Simulation
Deparment of Civil, Geo and Environmental Engineering
Technical University of Munich

Conversion of digital file formats to IFC

Project Characteristics

Modeling:	★★☆☆☆
Mathematics:	★☆☆☆☆
Programming:	★★★★★
Science:	★★☆☆☆

Setting:

Digital data of buildings and infrastructure assets:
- Multiple file formats exist
  - IFC, LandXML, CityGML, OKSTRA, FBX, …
- Conversion functionality
  - Scarce
  - Loss of information
- OpenInfraPlatform (OIP) supports IFC

Your Tasks:

- Extend OIP with three file formats
- Convert geometries and semantic objects

The final implementation should be capable of converting at least alignment and BRep geometries as well as properties and objects' types.