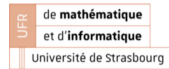


# KINETIC AND BUILDING LOD2



Intern: Demuth Axel

Supervisor: Vincent Chabannes, Pierre Alliez, Florent Lafarge

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# Introduction

# Issue with Kinetic Algorithm

# Objectives

- Check the validity of the Mesh
- Create a workflow for automatic generation using KSR Algorithm
- Keep the correspondence of surfaces between both meshes
- Run some simulations using the Feel++ library

# CGAL

- C++ library for geometric calculations, providing data structures for mesh generation and manipulation.

The main packages utilized are:

- `CGAL::Polygon_mesh_processing`
- `CGAL::Surface_mesh`
- `CGAL::Point_set_processing`
- `CGAL::IO_streams`
- `CGAL::AABB_tree`

# File Format

- IFC
- CityGML
- STL
- OBJ
- OFF
- Ply
- Msh

# Software

- Github : Platforme for collaborating work on a project
- Visual Studio Code : Versatil tools for coding with various extensions
- Paraview : Open-source data analysis and visualisation
- Meshlab : A tool for processing,editing,visualisation of 3D mesh
- GMSH : a 3D finite element mesh generator



# Data

# Kinetic

# preprocessing

# Labelling

# Metric



test

# Point cloud



# Self Intersection fixing

# Performance

# Conclusion

