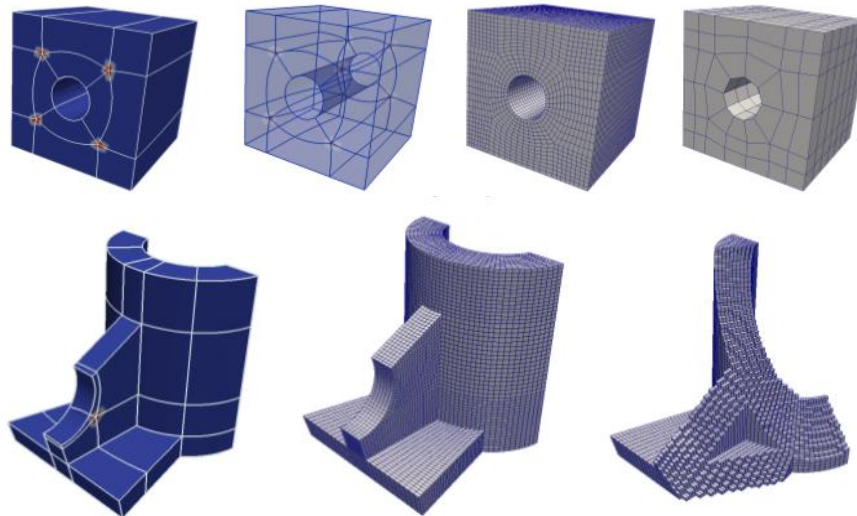
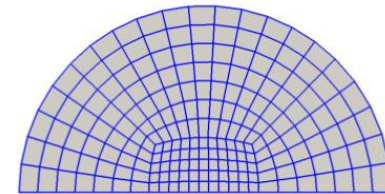


PDE Based Quad Meshing

Your Tasks:

- Implement the 2D version of the algorithm [1], delivering quad meshes for p-FEM computations
- Extend the mesh generator to 3D hex meshes [2]



References:

- [1] Kowalski, Nicolas, Franck Ledoux, and Pascal Frey. "A PDE based approach to multidomain partitioning and quadrilateral meshing." Proceedings of the 21st international meshing roundtable. Springer Berlin Heidelberg, 2013. 137-154.
- [2] Kowalski, N., F. Ledoux, and P. Frey. "Block-Structured Hexahedral Meshes for CAD Models using 3D Frame Fields." Procedia Engineering 82 (2014): 59-71.