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

Deep learning for 3D point cloud segmentation

Project Characteristics
Modeling: ★☆☆☆☆
Mathematics: ★★★☆☆
Programming: ★★★★☆
Science: ★★★★☆

Setting:

With the development of 3D acquisition technologies, 3D sensors are more and more popular in different fields. 3D data captured by these sensors can provide rich geometric information.
3D point cloud segmentation requires finding object boundaries along with their labels in 3D space, which is useful for further tasks such as scene modelling.

Your Tasks:

• Research in the "State of the Art" in 3D point cloud segmentation.
• Implement some available networks by using **Python** and **Pytorch**, such as SEGCloud, PointNet etc.
• Try to build your own networks that base on the available networks to improve the performance.