TU Clausthal

Kolloquium zur Masterarbeit

Hammad Ahmad

"Implementation and Evaluation of an Importer Framework for Experimental Networks using OpenStreetMap and the QGIS Database Management System"

OpenStreetMap (OSM) is the most famous crowdsourced project, which aims to build a global geospatial database containing data of streets, building and areas etc. Data from OSM is very widely used in different research domains as well as in many applications today. But yet the importing of OSM data is a very time consuming task which can be different regarding the final goal of an application. There are some libraries available that might speed up or ease the process of importing OSM data, but that data has to go through a lot of steps before it can be used in a geographic information system software i.e. QGIS, ArcGIS, Neo4j etc. so that it is available in the right format. The research focuses on a new OSM importer that will try to efficiently import the OSM data along with different amenities which can be stored either in the database directly or can be converted in the form of shape files which later on can be used for the network analysis of road networks in QGIS software system. The developed framework will simplify the whole process of importing data from OSM and will automate the procedure by removing the manual work for downloading and formatting OSM data. The final importer is able to import different sizes of networks into QGIS. The final network is assessed within the framework based on connectivity.

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