

Master 2018

Ms. Shreya Mitra

Final Thesis with Big Data Analysis on Satellite Navigation Engineering.

ABSTRACT - Masterthesis

The aim of this thesis is to implement a system, which stores the RINEX 3.02 format files into an already existing system with a backend in MongoDB and front End in Javascript for data manipulation and evaluation with enhanced data injection capabilities of the tool. Implement pre-processing features in order to promptly detect basic error/warning events on the data before injecting to database.

A part of the Thesis also deals with creating a Clear data outliers (clock jumps, carrier cycle slips), Observable combinations for separation of error sources in pseudo-ranges, positioning accuracy and automatically generating daily reports from processed data.