NTNU

Geomatikk

Geodesy
Specialization Project and Master thesis

Contact Hossein Nahavandchi to further discuss about the projects. Some titles are given below. Each of titles may include several projects:

Titles:

GNSS:

- GNSS ground based data processing and analysis for climate applications (for example GNSS-derived water vapor time series)
- Spaceborne GNSS reflectometry observations for land/ocean applications (for example wind retrieval, and soil moisture)
- Analysis of ionospheric/tropospheric effects on GNSS signals (Permanent GNSS Stations)
- General topics within GNSS such as accuracy/integrity improvement of positioning (different practical scenarios/issues)

GRACE (Gravity modelling):
- GRACE time series analysis for nationwide water storage analysis
- GRACE time series analysis for Greenland ice mass balance
- GRACE time series analysis for nationwide soil moisture analysis
- General topics within satellite gravity modelling

SAR and InSAR (?):

- Deformation/displacement detection using Interferometric SAR techniques

DATA preparation:

- Collocation of different satellite/ground based geodetic data
- Homogenization of geodetic time series

Geodesy topics chosen by students can also be discussed.