



Inter-Satellite Ranging (ZfT – Space, Bachelor/Master Thesis)

Motivation

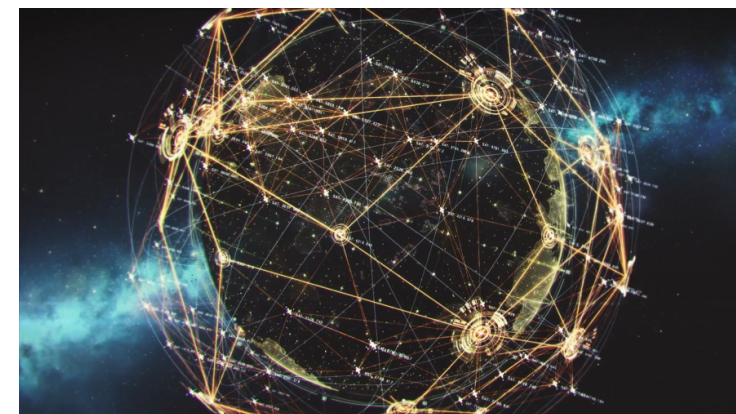
The aim of this master's thesis is the development of inter-satellite Ranging protocols for the operation of multiple CubeSats in LEO. Formations of small satellites (TOM, NetSat, CloudCT) will be the target platform of the proposed algorithms.

Tasks

- Research, comparison and selection of existing protocols
- Definition of HW/SW requirements (within CubeSat constraints)
- Examination of mission requirements for NetSat, TOM, and CloudCT
- Software development for on-board operations
- Implementation and evaluation of protocols (ground testing)

Experience

- Programming (required)
- Electronics (useful)
- Communications (useful)
- Experience with Radios/ADC+DAC/Antennas (useful)



Contacts

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