

Master Thesis: Investigation of Ship Detection and Parameter Estimation Algorithms for Multi-channel Airborne Radar

Objective:

Ship detection is one of the major applications for maritime security and surveillance. In the frame of the master thesis different ship detection and parameter estimation algorithms shall be implemented and compared, especially in terms of clutter suppression, detection and position estimation performance. For this task simulated data and real single- and multi-channel X- and L-band data acquired from DLR's airborne sensor F-SAR shall be used. For the algorithm implementation and investigation Python programming skills are mandatory.

Earliest starting date: March 2018

Duration: 6 month

Remuneration: According to German TVöD 05

Your qualifications:

- Study in Electrical or Telecommunication Engineering or Computer Science
- Good knowledge of Python
- Proficiency in English language

Location: DLR Oberpfaffenhofen (Germany)

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