Courses in English
Course Description

Department 08 Geoinformatics

Course title Remote Sensing Cartography

Hours per week (SWS) 4

Number of ECTS credits 5

Course objective Students will apply image processing techniques to optimize remote sensing data quality. Various cartographic products that are based on remote sensing and GIS data will be created. In lab assignments, students will perform remote sensing data classifications and apply data quality assessments to their classification results. Students will learn how to work and interact in a team setting.

Prerequisites Basic Statistics
Fundamentals of Remote Sensing
Fundamentals of Digital Image Processing
GIS Fundamentals

Weitere Literaturhinweise im Script auf Moodle

Teaching methods Lectures; E-Learning-Materials; Lab Assignments; Projects, Team Work; Student Presentations.

Assessment methods Project Assignments

Language of instruction English/German, Teaching materials in English

Name of lecturer Prof. Dr. Sven Fuhrmann

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Course content Acquisition of remote sensing data
Performing merges and estimating the quality of merges
Combination of raster and vector data in a remote sensing map
Map and legend design in remote sensing maps
Combination of remote sensing data with a DGM
Animated remote sensing data
Data visualization on various media
Supervised classifications with quality control
Integration and visualization of remote sensing data in GIS

Remarks