Module title			Abbreviation
Novel Image Analysis Methods			04-GEO-MET9-212-m01
Module coordinator		**Module offered by**	
holder of the Professorship of Remote Sensing		Institute of Geography and Geology	
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	graduate	--	

Contents

The basics of object-oriented image analysis (OBIA) are laid. Different segmentation methods are tested and evaluated. Using current software products, options for describing image objects are also learned and subsequently transferred to image classifications.

Intended learning outcomes

Students get to know the advantages and disadvantages of OBIA compared to pixel-based methods, especially in the processing of high-resolution remote sensing data. Image segmentation procedures and object-based classification methods are developed in theory and in practice.

Courses (type, number of weekly contact hours, language — if other than German)

S (1) + Ü (1)
Module taught in: English

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (approx. 15 pages)
Assessment offered: Once a year, summer semester
Language of assessment: English or German (assessment will be held in English; in addition, the examiner may, where possible, decide to hold assessment in German)
creditable for bonus

Allocation of places

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Additional information

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Workload

150 h

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2021)