Module title: Remote Sensing

Abbreviation: 10-I=RS-182-m01

Module coordinator:
holder of the Chair of Computer Science VIII

Module offered by:
Institute of Computer Science

ECTS: 5

Method of grading:
numerical grade

Only after succ. compl. of module(s):
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Duration:
1 semester

Module level:
graduate

Other prerequisites:
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Contents:
Remote sensing refers to the use of satellite- or aircraft-based sensor technologies to detect and classify objects on Earth, including on the surface and in the atmosphere and oceans, based on propagated signals (e.g. electromagnetic radiation). It may be split into "active" remote sensing (i.e., when a signal is emitted by a satellite or aircraft and its reflection by the object is detected by the sensor) and "passive" remote sensing (i.e., when the reflection of sunlight is detected by the sensor).

Intended learning outcomes:
The students learn the basics of earth observation. They outline and explain the radiation path through the atmosphere to the object under investigation and back to the sensor. They emphasize essential characteristics of remote sensing data, sensors and platforms.

Courses:
V (2) + Ü (2)
Module taught in: English

Method of assessment:
written examination (approx. 90 to 120 minutes)
Language of assessment: English
creditable for bonus

Allocation of places:
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Additional information:
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Workload:
150 h

Teaching cycle:
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Referred to in LPO I (examination regulations for teaching-degree programmes):
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Module appears in:
Master's degree (1 major) Satellite Technology (2018)