

Online-Lecture

Advanced Sensory Systems and Sensor Data Processing

Like every intelligent system, satellites depend on sensors. This lecture gives an introduction into different types of sensors and the processing of sensor data with a focus in image and 3D point cloud processing.

This first part of the lecture discusses sensor technology, including the implementation of Global Navigation Satellite Systems and sensors for Earth observation. The second part of the lecture covers data structures and algorithms for efficient processing of 3D point cloud data, camera models, photogrammetry and image processing methods.

Lectures will be provided as pre-recorded videos on a weekly basis, accompanied by interactive Zoom sessions as required.

Theoretical and practical exercises will be used to deepen the understanding of the concepts taught in the lectures.

Lecture sessions via Zoom (irregularly): **Tuesday 10:15-11:45** (starting 13.4.)

Exercises (Starting 19.04./20.04.): Group 1 **Thursday 16:00-17:00**, Group 2 **Thursday 17:00-18:00**, Group 3 **Friday 14:00-15:00**, Group 4 **Friday 15:00-16:00**



