

COURSE DETAIL

PHOTOGRAMMETRIC COMPUTER VISION

Country

Germany

Host Institution

Technical University Berlin

Program(s)

Technical University Berlin

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

130

UCEAP Course Suffix**UCEAP Official Title**

Photogrammetric Computer Vision

UCEAP Transcript Title

PHOTOGR COMP VISION

UCEAP Quarter Units

8.50

UCEAP Semester Units

5.70

Course Description

This course covers geometric basics of sensor orientation and object reconstruction, including homogeneous coordinates, projectivity and perspective, modelling of image formation, inner and outer orientation, orientation of uncalibrated and calibrated cameras, spatial resection, least-squares adjustment, orientation of the image pair, relative and absolute orientation, spatial triangulation, multi-view geometry, bundle block adjustment, image digitalization, and radiometric basics.

Language(s) of Instruction

English

Host Institution Course Number

0433 L120

Host Institution Course Title

Photogrammetric Computer Vision

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Institut für Technische Informatik und Mikroelektronik

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