

LV - detailed view

General Information

title
number
kind
semester hours
Offered in the semester
Lecturer (Contributor)
organization

Position in curriculum /
ECTS credits

Fundamentals of Geometry Processing

711013

Lecture and exercise

2 lecture / 1 exercise**Summer semester 2018**

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(Contact)

> [Compulsory subject: 6](#) | [Elective subject: 1](#) | [Doctoral studies: 0](#)

Information about the holding

content

Fundamentals of Geometric Processing:

Geometry processing algorithms are needed to extract information from digital 3D geometries. In recent years it has become easier to generate 3D data. With the advent of 3D scans, real-time depth sensors and 3D printing technologies, huge amounts of data are being generated and geometry processing is becoming increasingly important. Applications range from CAD, entertainment, cultural heritage, machine perception, robotics, engineering to biomedicine.

Content requirements
(expected knowledge)

no

Objective
(expected learning outcomes and
acquired competences)

The student gains the theoretical foundations for understanding and efficiently processing digital geometric data.

Teaching /
teaching languages

English

Teaching and Learning Method
(Transfer of Competences)

Workload for students

Scheduled dates

[details](#)

Participation Criteria & Registration



To register for participation, you must identify yourself as a student in

TUGRAZonline.

Details of the test

Requirements according to curriculum	see position in curriculum
Appraisal scheme (evaluation method, examination mode)	The course is evaluated using practical implementation assignments, worth 60% of the final mark, and theoretical exams, which make up 40% of the final mark. There are three practical assignments (20+20+20% = 60%) and two theoretical exams (20+20% = 40%), each weighted as 20% of the final mark. To pass the course the student has to achieve at least 50% in each of the assignments and exam. The last exam may be repeated in September.

[Details](#)

Prüfungstermine & Anmeldung

[Details](#)Anzahl der Prüfungstermine
im Semester

immanenter Prüfungscharakter

Zusatzinformationen

Empfohlene Fachliteratur

Online Informationen

[Online Unterlagen](#)[e-learning Kurs](#)

Anmerkung