

Module Handbook (<https://modhb.uni-kl.de/>)

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Module INF-73-71-M-7

3D Computer Vision & Augmented Reality (Seminar) (M, 4.0 LP)

Module Identification

Module Number	Module Name	CP (Effort)
INF-73-71-M-7	3D Computer Vision & Augmented Reality (Seminar)	4.0 CP (120 h)

Basedata

CP, Effort	4.0 CP = 120 h
Position of the semester	1 Sem. in SuSe
Level	[7] Master (Advanced)
Language	[EN] English
Module Manager	Stricker, Didier, Prof. Dr. (PROF DEPT: INF) (/staff/534/)
Lecturers	Stricker, Didier, Prof. Dr. (PROF DEPT: INF) (/staff/534/)
Area of study	[INF-KI] Intelligent Systems
Reference course of study	[INF-88.79-SG] M.Sc. Computer Science (/mhb/FB-INF/cos-536/)
Lifecycle-State	[NORM] Active

Courses

Type/SWS	Course Number	Choice in Module-Part	SL	PL	CP	Sem.
2S	INF-73-71-K-7 (/mhb/courses/INF-73-71-K-7/)	P	AUSARB_P	no	4.0	SuSe

- About [INF-73-71-K-7] (/mhb/courses/INF-73-71-K-7/): Title: "3D Computer Vision & Augmented Reality (Seminar)"; Presence-Time: 28 h; Self-Study: 92 h
- About [INF-73-71-K-7] (/mhb/courses/INF-73-71-K-7/): The study achievement "[AUSARB_P] written elaboration and presentation" must be obtained.

Evaluation of grades

The module is not graded (only study achievements)..

Contents

From [INF-73-71-K-7] 3D Computer Vision & Augmented Reality (Seminar) (/mhb/courses/INF-73-71-K-7/):

Selected topics from the field of 3D Computer Vision and Augmented Reality, e.g.:

- Algorithms and methods for camera tracking, object recognition, pose estimation, 3D reconstruction, etc.
- Augmented Reality applications, current trends
- Computer Vision and mobile Augmented Reality on consumer devices
- Realistic Rendering

Competencies / intended learning achievements

Upon successful completion of the module, students will be able to

- Ability to familiarize with a special topic in the field of 3D Computer Vision & Augmented Reality
- independently compile relevant technical literature on the chosen topic,
- familiarize themselves thoroughly with a technically and scientifically challenging topic
- comment on a scientific work in a well-founded and critical manner,
- place the chosen topic in its scientific context and to differentiate it appropriately
- present the results in a formally correct, structured and focused way in a written paper,
- follow and critically question a scientific presentation
- independently write a scientifically sound written paper on the chosen topic,
- design and conduct a specialized lecture on the chosen topic in a didactically appealing manner,
- assess one's own scope for action and decision-making and the associated responsibility and, if necessary, to obtain specific information, define priorities, derive tasks, develop solutions and monitor progress
- present and discuss a scientific question in English.

Literature

From [INF-73-71-K-7] 3D Computer Vision & Augmented Reality (Seminar) (/mhb/courses/INF-73-71-K-7/):

Topic specific

Requirements for attendance of the module (informal)

None

- Notice: Some Courses have informal requirements for attendance:
 - #A: [INF-73-71-K-7] 3D Computer Vision & Augmented Reality (Seminar) (2S, 4.0 LP) (P: Obligatory) (/mhb/courses/INF-73-71-K-7/#teilnahmevor-5530)

Requirements for attendance of the module (formal)

None

References to Module / Module Number [INF-73-71-M-7]

Course of Study	Section	Choice/Obligation
[INF-88.79-SG] M.Sc. Computer Science (/mhb/FB-INF/cos-536/)	[Specialisation] Specialization 1	[WP] Compulsory Elective