Medical Visualization

Summer

(in German: Medical Visualization)

Module-ID: FIN-INF-102622

Abbreviation	Credit Points	Semester	Term	Duration	Language	Level
MedVis	6	Summer	starting at 1.	1 Semester	english	Master

Link:	LSF
Limited accessability:	true
Responsibility:	Bernhard Preim
Lecturer:	Gabriel Mistelbauer
Classes:	• Lecture *Medical Visualization* • Exercise class *Medical Visualization*
Applicability in curriculum:	- M.Sc. INF: Informatik - M.Sc. INGINF: Informatik - M.Sc. WIF: Informatik - M.Sc. VC: Visual Computing

Intended learning outcomes:
Students ...

- are familiar with methods for visualizing three-dimensional medical image data
- can compare and evaluate methods for medical volume visualization
- know selected advanced methods for medical visualization
- can apply interactive methods to medical image data

Content:

- Medical volume visualization
- Visualization of 3D surfaces
- Virtual endoscopy
- Vessel visualization

Workload:
56 contact hours + 124 h self study

Pre-examination requirements:	Type of examination:	Teaching method / lecture hours per week (SWS):
	Oral exam	• 2 SWS lecture • 2 SWS exercise class

Prerequisites according to examination regulations:	Recommended prerequisites:
none	Lecture *Visualization*

Media:	Literature:
	• B. Preim und D. Bartz: Visualization in Medicine, Morgan Kaufman, San Francisco, 2006Preim, • Botha: Visual Computing for Medicine, 2nd Edition, , Morgan Kaufman, San Francisco, 2013

Comments:

Revision #1
Created 2026-10-20 17:02:23 UTC by Fakultät für Informatik
Updated 2026-10-20 17:02:23 UTC by Fakultät für Informatik