Visual Analytics in Health Care

Winter

(in German: Visual Analytics in Health Care)

Module-ID: FIN-INF-120476

Abbreviation	Credit Points	Semester	Term	Duration	Language	Level
VAHC	3	Winter	starting at 1.	1 Semester	english	Master

Link:	LSF
Limited accessability:	true
Responsibility:	Bernhard Preim
Lecturer:	Bernhard Preim
Classes:	'- Seminar *Visual Analytics in Health Care*
Applicability in curriculum:	- M.Sc. INGINF: Informatik - M.Sc. WIF: Informatik - M.Sc. DKE: Applied Data Science - M.Sc. DE: Methoden der Informatik - M.Sc. DE: Fachliche Spezialisierung - M.Sc. VC: Visual Computing

Intended learning outcomes:
The students ...

- know specific visual analytics solutions that are used in public healthcare applications
- can interpret and evaluate public healthcare data
- present and explain visual analytics solutions in healthcare scenarios

Content:

- Overview: Potential and applications of Visual Analytics in Healthcare
- Visual Analytics in Public Health
- Visual Analytics in Clinical Medicine
- Visual Analytics for Detecting Adverse Drug Effects
- Visual Analytics in Epidemiology

Workload:
3 credit points = 90 h (28 h attendance time + 62 h independent work), grading scale according to examination regulations

Pre-examination requirements:	Type of examination:	Teaching method / lecture hours per week (SWS):
	Examinations: student talk, seminar paper (10 pages)	Seminar (3 SWS)

Prerequisites according to examination regulations:	Recommended prerequisites:
none	Visualization, Data Mining, Visual Analytics or Information Visualization

Media:	Literature:
PowerPoint presentation, use of whiteboard, videos	Workshop volumes of the IEEE Workshop Visual Analytics in Healthcare (since 2010), selected publications of other conferences / magazines in the fields of data analysis and visualization

Comments:
Auch anrechenbar für Studierende des Masterstudiengangs "Medical Systems Engineering".

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