

Lehrform / Anzahl der SWS: 2SE

Kreditpunkte: 3

Turnus: i.d.R. angeboten in jedem SoSe

Inhaltliche Voraussetzungen: KEINE

Sprache: Englisch

Lehrende: Prof. Dr. Peter Haddawy

Studiengang	(Primäre) Modul(e), ggf. Schwerpunkt(e)	Semester
Informatik (Master)	IMS	ab 1.Sem.
Informatik (Bachelor)	(nur <i>Freie Wahl</i>)	

Lernziele / Learning Outcome:

Obtain a general understanding of the challenges in surgical training, including technical and non-technical skills
Understand theories of teaching psychomotor skills, decision making skills, and their interaction
Develop an understanding of essential AI and VR techniques and their application to surgical training
Understand how to evaluate such training systems
Develop analytical skills in reading and assessing the contributions of research papers

Inhalte / Contents:

Introduction to surgical skills
Issues in assessment, formative feedback, and summative feedback
Intelligent Tutoring Systems and their applications in medicine
VR simulation for surgical training
Experimental design in evaluation of surgical training systems

Unterlagen (Skripte, Literatur, Programme):

Form der Prüfung: i.d.R. Vortrag und Ausarbeitung

Arbeitsaufwand:	90h
Präsenz	28h
Vortrag vorbereiten und Ausarbeitung schreiben	62h

Weitere Hinweise: KEINE