Module MA-INF 4208	**Seminar Vision Systems**		
Workload 120 h	**Credit points** 4 CP	**Duration** 1 semester	**Frequency** every semester
Module coordinator	Prof. Dr. Sven Behnke		
Lecturer(s)	Prof. Dr. Sven Behnke, Prof. Dr. Joachim K. Anlauf, Dr. Nils Goerke		
Classification	**Programme** M. Sc. Computer Science	**Mode** Optional	**Semester** 2. or 3.
Technical skills	Knowledge in advanced topics in the area of technical vision systems, such as image segmentation, feature extraction, and object recognition. Ability to understand new research results presented in original scientific papers and to present them in a research talk as well as in a seminar report.		
Soft skills	Self-competences (time management, literature search, self-study), communication skills (preparation and clear didactic presentation of research talk, scientific discussion, structured writing of seminar report), social skills (ability to formulate and accept criticism, critical examination of research results).		
Contents	Current research papers from conferences and journals in the field of vision systems covering fundamental techniques and applications.		
Prerequisites	**Recommended:** At least 1 of the following: MA-INF 4111 – Intelligent Learning and Analysis Systems: Machine Learning MA-INF 4204 – Technical Neural Nets		

Format

Teaching format	**Group size**	**h/week**	**Workload[h]**	**CP**
Seminar	10	2	30 T / 90 S	4

T = face-to-face teaching; S = independent study

Exam achievements	Oral presentation, written report	(graded)
Study achievements	none	(not graded)
Forms of media		
Literature	• R. Szeliski: Computer Vision: Algorithms and Applications, Springer 2010. • C. M. Bishop: Pattern Recognition and Machine Learning, Springer 2006. • D. A. Forsyth and J. Ponce: Computer Vision: A Modern Approach, Prentice Hall, 2003.	