Module MA-INF 4211	**Seminar Cognitive Robotics**		
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, 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 cognitive robotics, such as robot perception, action planning, and robot learning. 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 cognitive robotics covering fundamental techniques and applications.		
Prerequisites	**Recommended:** At least 1 of the following: MA-INF 4113 – Cognitive Robotics MA-INF 4114 – Robot Learning		
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	• S. Thrun, W. Burgard and D. Fox: Probabilistic Robotics. MIT Press, 2005. • B. Siciliano, O. Khatib (Eds.): Springer Handbook of Robotics, 2008. • Selected papers.		