Module MA-INF 4206	**Selected Topics in Sensor Data Interpretation**		
Workload 180 h	**Credit points** 6 CP	**Duration** 1 semester	**Frequency** every year
Module coordinator	PD Dr. Volker Steinhage		
Lecturer(s)	PD Dr. Volker Steinhage		
Classification	**Programme** M. Sc. Computer Science	**Mode** Optional	**Semester** 2.
Technical skills	Understanding of important paradigms and methods of sensor data interpretation and ability to implement systems for interpreting sensor data		
Soft skills	• Ability to cooparate in small groups on solving given tasks • Ability to put a conceptual solution and its implemention down on paper • Ability to present and discuss a conceptual solution and its implemention in an oral presentation		
Contents	Approaches to feature extraction and classification of sensor data with applications in scene analysis, object detection and object tracking		
Prerequisites	**Required:** all of the following: MA-INF 2201 – Computer Vision BA-INF 131 – Intelligente Sehsysteme Module MA-INF 4206 "Selected Topics in Sensor Data Interpretation" requires knowledge and skills in the foundations of compuer vision like given in the Bachelor module BA-INF 131 "Intelligente Sehsysteme" or in Master module MA-INF 2201 "Computer Vision"		

Format	**Teaching format**	**Group size**	**h/week**	**Workload[h]**	**CP**
	Lecture	60	2	30 T / 45 S	2.5
	Exercises	30	2	30 T / 75 S	3.5
	T = face-to-face teaching; S = independent study				

Exam achievements	Written exam	(graded)
Study achievements	Successful exercise participation	(not graded)
Forms of media		
Literature	• Simon J.D. Prince: Computer Vision: Models, Learning, and Inference. Cambridge University Press, 2012. • Richard Szeliski: Computer Vision: Algorithms and Applications. Springer, 2010. • Selected up-to-date publications.	