

Module title					Abbreviation
Self-aware Computing					10-AI=SAC-242-m01
Module coordinator				Module offered by	
Dean of Studies Informatik (Computer Science)				Institute of Computer Science	
ECTS Method of grading		Only after succ. compl. of module(s)			
5 numerical grade					
Duration		Module level	Other prerequisites		
1 semester graduate		graduate			
Contents					
Ine lecture provides knowledge about techniques and methods for Self-Aware Computing Systems. Current al- gorithms and concepts for Self-Aware Computing Systems as well as related concepts such as e.g. Autonomic Computing, Self-Organized Systems, or Self-Adaptive Systems are taught. Additionally, current application areas such as i. e. Internet of Things or Cyber-Physical Systems are discussed. Basic capabilities of these systems, me- thods for evaluating their performance, and how they can be improved through the use of artificial intelligence are taught.					
Intended learning outcomes					
The participants have basic knowledge of methods and techniques in the field of Self-Aware Computing Systems and are able to independently identify and apply suitable methods for concrete problems and to evaluate systems appropriately.					
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)					
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Module taught in: German and/or English					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
Written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (ap- prox. 15 minutes per candidate). Language of assessment: German and/or English Creditable for bonus					
Allocation of places					
Additional information					
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master's degree (1 major) Artificial Intelligence (2024)					
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