

## Module description

Module title					Abbreviation
Data Compression 10-I=DK-102-m01					
Module coordinator				Module offered by	
holder of the Chair of Computer Scienc			e II Institute of Computer Science		
ECTS Method of grading		Only after succ. compl. of module(s)			
8	nume	rical grade			
Duration		Module level	Other prerequisites		
1 semester		graduate	Where applicable, prerequisites as specified by the lecturer at the begin- ning of the course (e.g. completion of exercises).		
Contents					
Entropy coding, text compression, dictionary methods, block transformations, image compression, human visual system, bitplane techniques, predicative methods, hierarchical transformations, discrete cosine transform, wavelets, JPEG baseline, JPEG 200, subband coding, fractal compression, vector quantisation, video compression, MPEG standards, audio compression.					
Intended learning outcomes					
The students possess the methodic knowledge and practical skills for the development and use of compression methods for text, image, video and audio data.					
Courses (type, number of weekly contact hours, language — if other than German)					
V + Ü (no information on SWS (weekly contact hours) and course language available)					
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examina- tion date, the written examination can be replaced by an oral examination of one candidate each or an oral ex- amination in groups. A 80 to 90 minute written examination is equivalent to a 20 minute (approx.) oral examina- tion of one candidate each, a 30 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 2					
Language of assessment: German, English if agreed upon with the examiner					
Allocation of places					
Additional information					
Workload					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master's degree (1 major) Computer Science (2010)					
Master's degree (1 major) Mathematics (2010)					
First state examination for the teaching degree Gymnasium Computer Science (2009)					
IMILWürzhurg • generated 18.04.2025 • Module data record 114407					