Module title: Advanced Automation  
Abbreviation: 10-I=AA-102-m01

Module coordinator: holder of the Chair of Computer Science VII
Module offered by: Institute of Computer Science

ECTS: 8  
Method of grading: numerical grade
Only after succ. compl. of module(s): --

Duration: 1 semester  
Module level: graduate
Other prerequisites: Where applicable, prerequisites as specified by the lecturer at the beginning of the course (e.g. completion of exercises).

Contents:
Advanced topics in automation systems as well as instrumentation and control engineering, for example from the field of sensor data processing, actuators, cooperating systems, mission and trajectory planning.

Intended learning outcomes:
The students have an advanced knowledge of selected topics in automation systems. They are able to implement advanced automation systems.

Courses:
(V + Ü (no information on SWS (weekly contact hours) and course language available)

Method of assessment:
Written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to 90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3.
Language of assessment: German, English if agreed upon with the examiner

Allocation of places: --

Additional information:
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Referred to in LPO I (examination regulations for teaching-degree programmes):
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Module appears in:
Master's degree (1 major) Computer Science (2010)
Master's degree (1 major) Mathematics (2012)
Master's degree (1 major) Mathematics (2010)
Master's degree (1 major) Computational Mathematics (2012)