Module title			Abbreviation
Control Engineering in Space 2			10-I=CE2-182-m01
Module coordinator		**Module offered by**	
holder of the Chair of Computer Science VII		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	--	

Contents

Students taking up this course are recommended to first complete Control Engineering in Space I. This course teaches advanced topics in control of dynamic systems specially related to space applications.

Intended learning outcomes

The students learn all necessary basics for the understanding of dynamic systems and their controllability by Kalman filters and their use in space applications. They are introduced to advanced controller and observer methods and realize the connections between the dual pairs controllability-observability and controller- and observer design as well as the relationship between Kalman filter as a state estimator and an observer.

Courses (type, number of weekly contact hours, language — if other than German)

V (2) + Ü (2)
Module taught in: English

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. 90 to 120 minutes)
Language of assessment: English
creditable for bonus

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

Teaching cycle: every year, summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Satellite Technology (2018)