

Course

DLO - image processing master

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^ General information

Long name	image processing master
Approving CModule	DLO MaET , DLO MaMT , DLO MaTIN
Responsible	Prof. Dr. Jan Salmen Professor Fakultät IME
Level	Master
Semester in the year	summer semester
Duration	Semester
Hours in self-study	60
ECTS	5
Professors	Prof. Dr. Jan Salmen Professor Fakultät IME
Requirements	The students should have some basic knowledge about image processing and pattern recognition
Language	German
Separate final exam	Yes

Final exam

Details

project documentation

Minimum standard

The documentation has to contain a description of the applied method and the achieved results. Principles of scientific work have to be applied. The used programs must run without errors, and the results must be plausible.

Exam Type

^ Lecture

Learning goals

Knowledge

Deep learning algorithms and their application for object recognition in images.

learning algorithms, their training and evaluation

Expenditure classroom teaching

Type	Attendance (h/Wk.)
Lecture	2
Tutorial (voluntary)	0

Separate exam

none

^ Practical training

Learning goals

Skills

training of a neural network

evaluation of the performance of a neural network

Expenditure classroom teaching

Type	Attendance (h/Wk.)
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Practical training	3
Tutorial (voluntary)	0

Separate exam

Exam Type

solving exercises within limited functional / methodical scope

Details

Training and evaluation of a neural network with dedicated examples

Minimum standard

Presence and active collaboration

^ Project

Learning goals

Knowledge

reading of selected literature

Skills

in-depth implementation and evaluation of selected image processing method

document results in an adequate way

implement algorithm from literature

assessment of results

Expenditure classroom teaching

Type	Attendance (h/Wk.)
Project	0
Tutorial (voluntary)	0

Separate exam

none