



COURSE 7

APPLIED AI (NLP & CV)

Study load: 6 credits

Total studytime: 150 hours

EU-Partner(s): HOWEST

TC-Partner(s): MUN

PREREQUISITES

- Deep Learning

STUDY MATERIALS

- Moodle course – digital course
- Presentations
- Elaborated examples and cases
- Weblinks
- Video recordings
- Demos

TECHNICAL REQUIREMENTS / LAB EQUIPMENT

- Microsoft Office
- Microsoft Visual Code
- Spyder
- Jupyter Notebook
- Anaconda

LEARNING OUTCOMES

- Students can calculate probabilities and make predictions based on supplied data
- The student knows different criteria for technology choice
- The student uses different criteria for technology choice
- The student understands and interprets basic statistics
- The student can implement existing state-of-the-art models to solve AI specific cases

ACTIVITIES

- Activating lectures
- Labs

CONTENT

- The AI pipeline: data exploration, data labeling, labeling services, data augmentation, autoML
- Object Detection & Transfer Learning
- Advanced Segmentation
- Generative Models
- Advanced Embeddings
- Sequence2Sequence en Attention networks
- Transformers Activating lectures

EVALUATION

First exam chance

FORM	%	REMARK
Written exam	60.00	
Continuous assessment	40.00	Various interim assignments

Second exam chance (re-sit exam)

FORM	%	REMARK
Exam	100.00	