Courses in English
Course Description

Department 07 Computer Science and Mathematics
Course title Advanced Deep Learning Architectures
Hours per week (SWS) 4
Number of ECTS credits 5

Course objective Learning objectives are the understanding of deep neural networks and how they apply to different application fields. The students will be able to train, optimize and enhance performance in their deep models, getting a flavor for different frameworks and practical approaches to deep learning.

Prerequisites In order to pass successfully this class, you should have basics of linear algebra, statistics, software development as well as good English language skills. The course is open to International students as well as students from other departments who qualify as stated above (Courses in English).

Recommended reading Books and Journals:

Online classes:
http://cs231n.stanford.edu/
http://info.usherbrooke.ca/hlarochelle/neural_networks/content.html
http://cs229.stanford.edu/
And selected Papers.

Teaching methods Seminar
Assessment methods Graded project work (60%), graded colloquium (40%)
Language of instruction English
Name of lecturer Lorenzo Servadei
Email lorenzo.servadei@hm.edu
Link http://www.cs.hm.edu/die_fakultaet/ansprechpartner/wissenschaftlichenmitarbeiter/servadei/index.de.html

Course content After an introduction in the learning theory and in the machine learning, we are going to explore different deep learning architectures, reading and understanding recent notable papers in this area.

Remarks