

## Course Description – Summer 2020

<b>Title</b>	Computational Intelligence
<b>Faculty</b>	Computer Science
<b>Professor</b>	Prof. Dr. Martin Golz
<b>ECTS</b>	5
<b>Level</b>	Master
<b>Requirements</b>	Basic knowledge in linear algebra, analysis, and statistics as well as solid programming skills.
<b>Add. Information</b>	-
<b>Content</b>	The students will get an introduction to basic goals and the main tasks of computational intelligence. Statistical learning theory is the subject of several lectures. Afterwards, multivariate linear discriminant analysis and multivariate regression analysis is presented. The course finishes with kernel discriminant, kernel regression and kernel adaptive filtering methods and a first course into deep learning.