

Complementary module of the School of Engineering (EVA)

Title: Artificial Intelligence Seminar

Abbreviation: EVA_AISeminar

Credits	2 ECTS
Provider	InIT
Proof of performance	Talk (20 min.) & thesis (4 pages, 2-column IEEE format)
Beginning	First week of fall and spring semester, by arrangement
Didactic approach and style	We read and discuss original research publications from the area of artificial intelligence. The course consists of an introductory session and topic assignment to individuals; regular colloquia with all participants to discuss findings; and a final presentation session where each participant gives a talk on his topic.
Language	Literature and report in English, German on request (colloquia, talk)
Abstract (max. 300 characters)	We will read and discuss original research work in the broad area of artificial intelligence, both classics and recent advances. You can bring in own research interests. The AI Seminar is intended to foster the scientific practices of scholarly reading and writing using exciting objects of study.
Content and educational objectives	<ul style="list-style-type: none"> You will have made a deep dive into a sub field of your choice of artificial intelligence You are able to do scholarly literature research You are able to read, comprehend and assess original scientific publications You are able to communicate your findings in the academic ways of an oral talk and a written paper
Admission requirements	Curiosity for AI
Literature	<p>Examples:</p> <ul style="list-style-type: none"> Mnih et al, <i>"Human-level control through deep reinforcement learning"</i>, 2015 J. Schmidhuber, <i>"Driven by Compression Progress: A Simple Principle Explains Essential Aspects of Subjective Beauty, Novelty, Surprise, Interestingness, Attention, Curiosity, Creativity, Art, Science, Music, Jokes"</i>, 2009 <p>Supplementary:</p> <ul style="list-style-type: none"> J. Zobel, <i>"Writing for Computer Science"</i>, 2004
Special regulations	In case of few participants, the final talk may be omitted.
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