FAKULTÄT

FÜR MATHEMATIK, INFORMATIK UND NATURWISSENSCHAFTEN

TAMING THE MACHINES

DOES ALPHA GO ACTUALLY PLAY GO? CONCERNING THE STATE SPACE OF AI

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About the lecture

The goal of the talk is to develop and propose a general model of the state space of Al. Given the breathtaking progress in Al research and technologies in recent years, such conceptual work is of substantial theoretical interest. The present Al hype is mainly driven by the triumph of deep learning neural networks. As the distinguishing feature of such networks is the ability to self-learn, self-learning is identified as one important dimension of the Al state space. Another dimension is recognized as generalization, the possibility to go over from specific to more general types of problems. A third dimension is semantic grounding. Our overall analysis connects to a number of known foundational issues in the philosophy of mind and cognition: the blockhead objection, the Turing test, the symbol grounding problem, the Chinese room argument, and use theories of meaning. It shall finally be argued that the dimension of grounding decomposes into three sub-dimensions. And the dimension of self-learning turns out as only one of a whole range of "self-x-capacities" (based on ideas of organic computing) that span the self-x-subspace of the full Al state space.

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delivered in digital form –
Details to access the lecture will be made public at http://uhh.de/inf-eit on a timely basis.

ETHIK IN DER INFORMATIONSTECHNOLOGIE

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