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TAMING THE MACHINES

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

PROF. DR. HOLGER LYRE (UNIVERSITÄT MAGDEBURG)

ÖFFENTLICHE RING-VORLESUNG

About the lecture

The overarching goal of the talk is to develop a general model of the state space of AI. Given the breathtaking progress in AI research and technologies in recent years, such conceptual work is of substantial theoretical interest. The present AI 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 AI state space. Another main dimension lies in the possibility to go over from specific to more general types of problems. The third main dimension is provided by semantic grounding. We take a fresh look at known foundational arguments in the philosophy of mind and cognition that are gaining new relevance in view of the recent AI developments including the blockhead objection, the Turing test, the symbol grounding problem, the Chinese room argument, and general use-theoretic considerations of meaning. Finally, the AI state space, spanned by the main dimensions generalization, grounding and self-x capacity, the ability to dispose of self-x properties such as self-learning, is outlined.

ETHIK IN DER
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Hauptgebäude, Hörsaal C
Edmund-Siemers-Allee 1
20146 Hamburg

KONTAKT

Prof. Dr. Judith Simon
Dr. Pak-Hang Wong

http://uhh.de/inf-eit