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Abstract

This presentation asks what dangers exist in the development of an advanced artificial intelligence. Artificial intelligence, in general, is a dominant subject across academia and industry. From rudimentary algorithms to sophisticated machine-learning systems, the use of AI has exploded -- as well as the research and development to widen its capabilities.

It can be assumed, based on problems that exist with today's AI software, that ethical considerations often fall behind the desire to relentlessly innovate and deliver bleeding-edge AI systems. The concern becomes what the consequences of improper ethical considerations can be as these systems grow in power. It is not beyond the realm of possibility that an AI, with enough physical connections to the world, can cause significant damage through improper, careless, or absent codifications of ethical necessities.

While the presentation does not offer a concrete solution, it raises awareness of unique and potentially overlooked issues that can arise when dealing with an advanced artificial intelligence. Without a firm grasp of the notion that unforeseen consequences must be anticipated when creating an AI system, it is essential that AI researchers step back and think about what the ramifications of their designs may be.