

Publication on the Fundamentals and Foundation of Artificial Intelligence

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Abstract: *Artificial intelligence research has built on the tools and techniques of many disciplines, including formal logic, probability theory, decision theory, management science, linguistics, and philosophy. The application of these disciplines in AI, on the other hand, has necessitated the development of numerous enhancements and extensions. Computational logic methods are among the most powerful of these. I will argue that, when embedded in an agent cycle, computational logic combines and improves on both traditional logic and classical decision theory. I will also argue that many of its methods can be used to help people improve their own human intelligence without the assistance of computers, not just in AI.*

Keywords: Artificial intelligence.

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