

Study on the Fundamentals and Foundations of Artificial Intelligence

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Abstract: *Research in artificial intelligence draws on tools and techniques from various disciplines, including formal logic, probability theory, decision theory, management science, linguistics, and philosophy. On the other hand, using these areas in AI required the development of some modifications and extensions. The computational logic approach is one of the most powerful of them. We argue that when embedded in the agent cycle, computer logic integrates and improves upon both traditional logic and classical decision theory. We also propose that many of its principles can help individuals develop human intelligence without the aid of computers, not just AI.*

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