Artificial Intelligence A Modern Approach 3rd Edition Solution Manual

Solutions for Chapter 1 Introduction

1.1

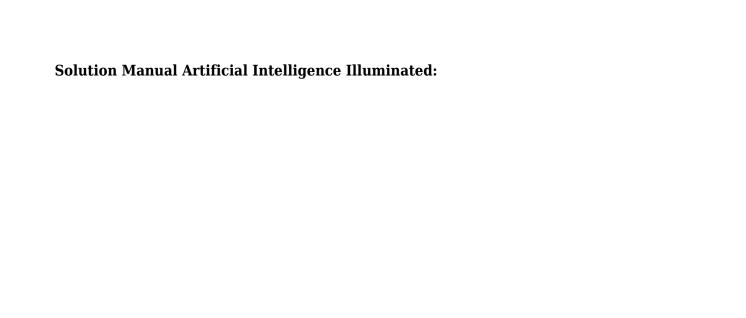
- a. Dictionary definitions of intelligence talk about "the capacity to acquire and apply knowledge" or "the faculty of thought and reason" or "the ability to comprehend and profit from experience." These are all reasonable answers, but if we want something quantifiable we would use something like "the ability to apply knowledge in order to perform better in an environment."
- b. We define artificial intelligence as the study and construction of agent programs that perform well in a given environment, for a given agent architecture.
- e. We define an agent as an entity that takes action in response to percepts from an environment.
- d. We define rationality as the property of a system which does the "right thing" given what it knows. See Section 2.2 for a more complete discussion. Both describe perfect rationality, however; see Section 27.3.
- e. We define logical reasoning as the a process of deriving new sentences from old, such that the new sentences are necessarily true if the old ones are true. (Notice that does not refer to any specific syntax oor formal language, but it does require a well-defined notion of truth.)
- 1.2 See the solution for exercise 26.1 for some discussion of potential objections.

The probability of fooling an interrogator depends on just how unskilled the interrogator is. One entrant in the 2002 Loebner prize competition (which is not quite a real Turing Test) did fool one judge, although if you look at the transcript, it is hard to imagine what that judge was thinking. There certainly have been examples of a chatbot or other online agent fooling humans. For example, see See Lenny Foner's account of the Julia chatbot at foner, www.media.mit.edu/people/foner/Julia/. We'd say the chance today is something like 10%, with the variation depending more on the skill of the interrogator rather than the program. In 50 years, we expect that the entertainment industry (movies, video games, commercials) will have made sufficient investments in artificial actors to create very credible impersonators.

1.3 Yes, they are rational, because slower, deliberative actions would tend to result in more damage to the hand. If "intelligent" means "applying knowledge" or "using thought and reasoning" then it does not require intelligence to make a reflex action.

Solution Manual Artificial Intelligence Illuminated

L Reisser



Solution Manual Artificial Intelligence Illuminated Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Solution Manual Artificial Intelligence Illuminated**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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