

Logical Induction Artificial Intelligence

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Logical Induction Artificial Intelligence

A logical inductor is any sequence of probabilities that satisfies our logical induction criterion, which works roughly as follows. We interpret a reasoner's probabilities as prices in a stock market, where the probability of ϕ is interpreted as the price of a share that is worth \$1 if ϕ is true, and \$0 otherwise (similar to

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We show that our algorithm, an instance of what we call a logical inductor, satisfies a number of intuitive desiderata, including: (1) it learns to predict patterns of truth and falsehood in logical statements, often long before having the resources to evaluate the statements, so long as the patterns can be written down in polynomial time; (2) it learns to use appropriate statistical summaries to predict sequences of statements whose truth values appear pseudorandom; and (3) it learns to ...

[1609.03543] Logical Induction - arxiv.org

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AI & Logical Induction - Computerphile - YouTube

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Intended both as a text for advanced undergraduates and graduate students, and as a key reference work for AI researchers and developers, Logical Foundations of Artificial Intelligence is a lucid, rigorous, and comprehensive account of the fundamentals of artificial intelligence from the standpoint of logic.

Logical Foundations of Artificial Intelligence: Genesereth ...

In artificial intelligence, the reasoning is essential so that the machine can also think rationally as a human brain, and can perform like a human. Types of Reasoning. In artificial intelligence, reasoning can be divided into the following categories: Deductive reasoning; Inductive reasoning; Abductive reasoning; Common Sense Reasoning; Monotonic Reasoning

Reasoning in Artificial Intelligence - Javatpoint

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Abductive reasoning (also called abduction, abductive inference, or retrodution) is a form of logical inference formulated and advanced by American philosopher Charles Sanders Peirce beginning in the last third of the 19th century. It starts with an observation or set of observations and then seeks to find the simplest and most likely conclusion from the observations.

Abductive reasoning - Wikipedia

Inferences are steps in reasoning, moving from premises to logical consequences; etymologically, the word infer means to "carry forward". Inference is theoretically traditionally divided into deduction and induction, a distinction that in Europe dates at least to Aristotle (300s BCE). Deduction is inference deriving logical conclusions from premises known or assumed to be true, with the laws ...

Inference - Wikipedia

Artificial intelligence - Artificial intelligence - Reasoning: To reason is to draw inferences appropriate to the situation. Inferences are classified as either deductive or inductive. An example of the former is, "Fred must be in either the museum or the café. He is not in the café; therefore he is in the museum," and of the latter, "Previous accidents of this sort were caused by ...

Artificial intelligence - Reasoning | Britannica

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