

Arguments

- What is an argument?

An argument is a collection of propositions where it is claimed that one of the propositions (the conclusion), follows from the other propositions (the premises).

Inductive vs. Deductive Argument

- Inductive Argument

One where it is claimed that within a certain probability of error the conclusion follows from the premises

- Deductive Argument

One where it is claimed that the conclusion absolutely follows from the premises.

Inductive vs. Deductive Argument

- Inductive Argument

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One where it is claimed that within a certain probability of error the conclusion follows from the premises

Inferential Statistics, Theory of Probability

- Deductive Argument

One where it is claimed that the conclusion absolutely follows from the premises.

Mathematical Logic, Discrete Mathematics

Rules of Inference

1. Addition

P

$\therefore P \vee Q$

2. Conjunction

P

Q

$\therefore P \wedge Q$

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