

Automatic Reasoning

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Automatic Reasoning

Setting

- This course focuses on:
 - automatic methods for **reasoning** about the knowledge represented into
 - ontologies and
 - large-scale knowledge-bases.

Automatic Reasoning

Outline

- Introduction
- Ontologies and Large-scale KB (German)
- Deductive reasoning (Paqui, Javier)
- Inductive reasoning (Montse)
- Abductive reasoning (German)
- Conclusions

Automatic Reasoning

Outline

$A \rightarrow B$

A

B

Automatic Reasoning

Outline

$$\begin{array}{l} A \rightarrow B \\ A \end{array}$$

$$B$$
$$\begin{array}{l} A \rightarrow B \\ A \end{array}$$

$$?$$

Deduction

$$\begin{array}{l} ? \\ A \end{array}$$

$$B$$

Induction

$$\begin{array}{l} A \rightarrow B \\ ? \end{array}$$

$$B$$

Abduction

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