Reinforcement Learning of Theorem Proving

October 30, 2019

Overview

- Connection Tableau
- 2 Advising with RL
 - What do we advise?
 - How do we advise?
 - Was it worth it?
- Summary
- Second Section

Connection Tableau

$${P, R} {\neg P, f(X)} {\neg f(b), P}$$

 ${\neg f(c), \neg P} {P, \neg P}$



Connection Tableau

$${P, R} {\neg P, f(X)} {\neg f(b), P}$$

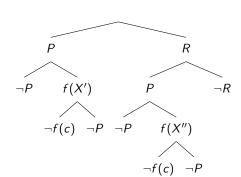
 ${\neg f(c), \neg P} {P, \neg P}$



Connection Tableau

$${P, R} {\neg P, f(X)} {\neg f(b), P}$$

 ${\neg f(c), \neg P} {P, \neg P}$



Paragraphs of Text

Blocks of Highlighted Text

Block 1

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Block 2

Pellentesque sed tellus purus. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Vestibulum quis magna at risus dictum tempor eu vitae velit.

Block 3

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Multiple Columns

Heading

- Statement
- 2 Explanation
- Example

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Table

Treatments	Response 1	Response 2
Treatment 1	0.0003262	0.562
Treatment 2	0.0015681	0.910
Treatment 3	0.0009271	0.296

Table: Table caption

Theorem

Theorem (Mass-energy equivalence)

 $E = mc^2$

Verbatim

Example (Theorem Slide Code)

Figure

Uncomment the code on this slide to include your own image from the same directory as the template .TeX file.

Citation

Urban (2007)

Bibliography

Urban, J. (2007). MaLARea: a metasystem for automated reasoning in large theories. In *Proceedings of the CADE-21 Workshop on Empirically Successful Automated Reasoning in Large Theories, Bremen, Germany, 17th July 2007.*