

(When) Is Truth-Telling Favored in AI Debate?

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Motivation

Current AI is good at formally-specified problems. (Say, chess.)

- **Problem:** How to get AI to solve informally stated problems?
 - Examples: “Where should I go for a vacation?”, “Optimize the world.”
- **Naive approach:** Reward the AI for finding solutions we approve of.
- **Why this fails?** AI gets rewarded even for wrong solutions whose flaws are too difficult for the human to see.

AI Debate

- 1) Have two AIs propose solutions.
- 2) Have the AIs debate over which solution is better.
- 3) Reward the debate's winner.

Our work:

- Formalizing this approach.
- Finding problems with it.

Find me at the poster session to learn more!

