

Detecticon: A Prototype Inquiry Dialog System

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What is Inquiry Dialogue? [Black & Hunter 2007]

Task-oriented dialogue

- Task = to **answer a given question**, which is common to both participants.

Assumption:

- **Neither** of the participants knows complete domain knowledge.
- A participant can reuse what the other has argued, and *vice versa*.

Protocol

- Open
- Assert (with and without inference)
- Close

Example: Compliance Violation Detection

Question

Has a cartel happened between companies A and B?

U's knowledge

A proposed a price to B.



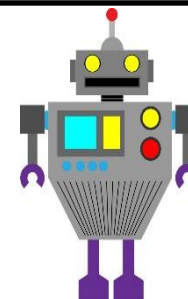
User

Shared Knowledge

S's knowledge

If A proposed a price to B and B accepted A's price, then a cartel has happened.

B accepted A's price



System

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Shared Knowledge

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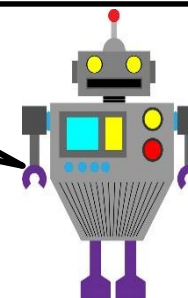
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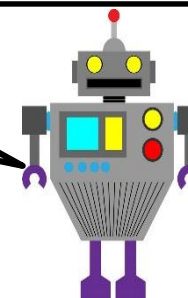
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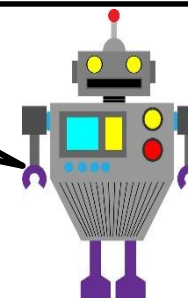
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If A proposed a price to B and B accepted A's price, a cartel has happened. (Open)

A proposed to B a price. (Assert w/o inference)



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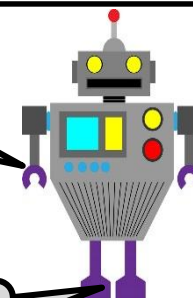
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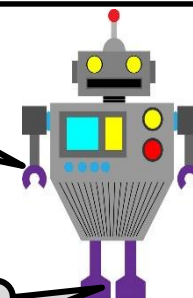
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I have nothing to say. (Close)

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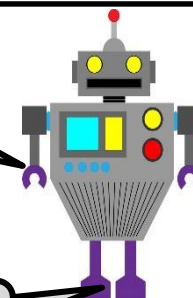
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B accepted A's price. Therefore a cartel has happened. (Assert w/ inference)

I have nothing to say. (Close)

Nor do I. (Close)

Detecticon

- Purpose: data collection (thus scenarios are given)
- Domain: compliance violation detection
- User interface: → video clip

 **Orchestrating** a brighter world

NEC