

W38: IJCAI 2016 2nd Workshop on Cognitive Knowledge Acquisition and Applications (Cognitum 2016)

Website: <http://cognitum.ws>

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Motivation: Ultimately, to develop **cognitive systems** that learn, reason, and interact naturally with humans.

Emphasize: knowledge acquisition

- Knowledge in the form of **general inference rules** (not facts) that are used to reason in novel situations.
- **Human-readable representation.**

Conclusion:

- Focus not on representation, but on **explaining system inferences**, and on **accepting user feedback.**
- Continue collocation with IJCAI.

Workshop Highlights:

- **“Collecting Commonsense Problems from Text”**
Keynote: Ernest Davis. Work on interesting problems that need to be solved, not only on problems that are amenable to what existing techniques can handle.
- **Learning knowledge for commonsense psychology.**
If I wanted something and did not get it, I am sad!
- **Robots learning to ground text on visual inputs.**
The red apple was just moved onto the blue plate.
- **Making film recommendations and explaining why.**
Godzilla: a dinosaur film not directed by Spielberg.
- **Using Minsky’s critic networks for common sense.**
– I can’t reach the hammer. – Let me get it for you!
- **Enhancing taxonomies developed by experts.**
When experts are not enough, try using Wikipedia.
- **Static dictionaries versus learning them from text.**
Choose how fine-grained the descriptions will be.