Natural Language Processing with Human-in-the-Loop Reinforcement Learning

Satinder Singh, Walter Lasecki, Rada Mihalcea, and Jonathan Kummerfeld
We bring together expertise from three fields of computer science.
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• Reinforcement Learning (Prof. Singh)
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• Real-Time Crowdsourcing (Prof. Lasecki)
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- Reinforcement Learning
  (Prof. Singh)

- Real-Time Crowdsourcing
  (Prof. Lasecki)

- Natural Language Processing
  (Prof. Mihalcea, and Dr Kummerfeld)
Interested in building systems that adaptively learn over time
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Model training with reinforcement learning

Human Expert
Interested in building systems that adaptively learn over time.

Model training with reinforcement learning

Provide ground truth

Human Expert
Interested in building systems that adaptively learn over time

- Model training with reinforcement learning
- Provide ground truth
- Select both data and interface

Human Expert
Thank you!

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