Temporally-extended Action Models

- Low-level, object-specific actions don't scale

- Long-term planning & inference is intractable

"Unload the truck"

I'd like to compose an e-mail

Matthew Walter

Temporally-extended Action Models

- Robots need richer models of actions that objects afford
  - Object-, task-, and agent-specific actions

- Action-effect representation offers scalability

- Ground affordance representations in perception
  - e.g., articulated object models

- Robots must learn action-effect representations opportunistically based on experience

Matthew Walter

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