how do we improve teams of robots cooperate on longhorizon problems?

Problem Properties

- Partial observability
- Stochastic actions and communications
- Adversarial human → long planning horizons



N robots versus 1 human

Solution Properties

- Decentralized
- Degrade gracefully with comms

Idea: dynamically switch between 2+ strategies (MPDM).



Spread out and look for the human

Converge upon a suspected location

know when to use which strategy by evaluating with Monte Carlo roll-outs.



Come talk with me at Poster Session 2, #46