

POMDP: A systematic framework for decision-making under uncertainty

- POMDP: Partially Observable Markov Decision Process
- Defined by the following:

| Variable | Description |
|---------------------|----------------------|
| \mathcal{S} | State space |
| \mathcal{A} | Action space |
| \mathcal{O} | Observation space |
| $T(s' s, a)$ | Transition function |
| $R(s, a)$ | Reward function |
| $O(o s')$ | Observation function |
| $\gamma \in [0, 1]$ | Discount factor |