





 Hill climbing and variations Simulated Annealing: global optimal





- Given its state of knowledge
- Choose optimal action
- With limited computational resources
- Human-like intelligence/behavior

Adversarial Search

- AND/OR search space (max, min)
- minimax objective function
- minimax algorithm (~dfs)
- alpha-beta pruning
- Utility function for partial search
- Learning utility functions by playing with itself
- Openings/Endgame databases

Knowledge Representation and Reasoning Representing: what agent knows Propositional logic Constraint networks HMMs Bayesian networks ... Reasoning: what agent can infer Search Dynamic programming Preprocessing to simplify







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