

Review Checklist for Quiz #1

All material for the topics below covered until 10/18 is fair game.

Artificial Neural Networks

- Learning from Data
- Activation Functions
- Architectures
- Gradient Descent
- Backpropagation

Uninformed Search

- Search Problem Formulations
- Breadth-First Search
- Depth-First Search

Informed Search

- Greedy Best-First Search
- A* Search
- Admissible Heuristics
- Manhattan Distance
- Relaxed Problems
- Pattern Databases

Constraint Satisfaction Problems (CSPs)

- Defining CSPs
- Constraint Graphs
- CSP Formalisms
- Types of Constraints
- Types of Consistency
- Backtracking Search
- Local Search
- Hill Climbing
- Problem Structure

Adversarial Search

- Adversarial Games
- Minimax Game-Trees
- Alpha-Beta Pruning
- Evaluation Functions

Neural Network Model Search

- Hyperparameter Optimization Strategies
- Neural Architecture Search Strategies