Kahoot!

Lecture 06: On-Policy Prediction and Control with Function Approximation

Lecture 05: Value Function Approximation

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A public kahoot

Questions (6)

1 - Quiz

We introduce function approximators, because... 60 sec

- they are more stable to train. ✗
- we want to generalize over similar states and actions. ✓
- they converge to better value functions. ✗
- they can cope with very large state and action spaces. ✓

2 - Quiz

Differentiable function approximators are often preferred, because... 60 sec

- others do not work. ✗
- they are guaranteed to find the global optimum. ✗
- the gradients yield the influence of parameters. ✓
- we have to handle non-stationary data. ✗

3 - True or false

In contrast to gradient MC prediction, on-policy linear semi-gradient TD is not guaranteed to converge. 30 sec

- True ✗
- False ✓

4 - Quiz

When can we directly calculate the least squares solution? 30 sec

- Linear combination of non-linear features. ✓
- Non-linear combination of linear features. ✗

5 - Quiz

What do we estimate in semi-gradient SARSA via function approximation? 60 sec

- The state-value function. ✗
- The policy. ✗
- The action-value function. ✓
- The model. ✗

6 - True or false

Similar to tabular methods, memory-based function approximation does not generalize. 30 sec

- True ✗
- False ✓