Control with Approximation

Practice Assignment • 40 min

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English

Your grade: 91.66%

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1. Which of the following are true? (Select all that apply) 1 / 1 point

- [ ] When using state aggregation or coarse coding, updating the value of one state does not affect the values of other states.
- [x] In the tabular case, updating the value of one state does not affect the values of other states.

Correct

Correct! In the tabular case, there is one estimate of the value function for each state, so updating the value function of one state does not affect the value of other states.

- [x] When using state aggregation or coarse coding, there is generalization across states.

Correct

Correct: Since states share weights, updating the value of one state also affects the value of other states; hence, learning generalizes across states.

- [ ] In the tabular case, there is generalization across states, i.e., updates to the value function of one state influences the value function of other states.

2. To turn the update of Expected Sarsa algorithm to the update of Q-learning, one must: 1 / 1 point

- (•) Use the maximum over all the actions instead of the expectation in the update function.
- ( ) Behave greedily with respect to the action-value function.
- ( ) Expected Sarsa cannot be adapted to represent Q-learning.
- ( ) Use a neural network to approximate the action-value function.