Control with Approximation



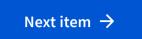
Practice Assignment • 40 min

⊕ English ∨

Your grade: 91.66%

Your latest: **91.66**% • Your highest: **91.66**%

To pass you need at least 80%. We keep your highest score.



| 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. | |
| | ✓ In the tabular case, updating the value of one state does not affect the values of other states. | |
| | | |
| | 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. | |
| | ✓ When using state aggregation or coarse coding, there is generalization 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. | |
| | O 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. | |