

1. What's the difference between Q-Learning and Policy Gradients methods?

Answer:

2. What's the difference between a Deterministic vs Stochastic policy?

Answer:

3. Why would you use a Policy-based method instead of a Value-based method?

Answer:

4. What is the difference between off-policy and on-policy learning?

Answer:

5. What is the difference while the discount factor $\gamma = 0$ and $\gamma = 1$ in reinforcement learning?

Answer:

6. When applying RL to the single-intersection traffic signal control application, which of the following cannot be the state S ?

- a) Queue length on each lane of the road
- b) Number of vehicle on each lane of the road
- c) Traffic signal phase
- d) Average traffic speed of each lane

Answer:

7. What is the specific advantage of DQN?

Answer:

8. List three methods to incorporate the communication between the agents when you use multi-agent reinforcement learning to solve the multi-intersection traffic signal control problem.

Answer:

9. What are the parameters that you can tune when training neural network-based RL models?

Answer: