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CourseGradesCourse feedback

User report

 **Nguyen Binh**

Grade item	Grade	Feedback
ELEC-E8125 - Reinforcement learning D, Lecture, 4.9.2023-29.11.2023		
 QUIZ <a href="#">Quiz 1</a>	10.00	
 QUIZ <a href="#">Quiz 2</a>	10.00	
 QUIZ <a href="#">Quiz 3</a>	10.00	
 QUIZ <a href="#">Quiz 4</a>	10.00	
 QUIZ <a href="#">Quiz 5</a>	10.00	
 QUIZ <a href="#">Quiz 6</a>	8.00	
 QUIZ <a href="#">Quiz 7</a>	10.00	
 QUIZ <a href="#">Quiz 8</a>	8.00	
 ASSIGNMENT <a href="#">Exercise 1</a>	100.00	Email address: /  T1: 10/10  Q1.1: 10/10  T2: 10/10  Q2.1: 15/15  Q2.2: 10/10  T3: 20/20  T4: 10/10  Q4.1: 5/5  Q4.2: 10/10  Total: 100/100
 ASSIGNMENT <a href="#">Exercise 2</a>	95.00	Student number (from Oodi): /  Email address: /  T1: 30/30  Q1.1: 5/5  Q1.2: 5/5  Q1.3: 5/5  T2: Generally the policy may converge earlier than value function because the optimal policy does not need the full state-value function to be optimal. - 10/15  T3: 5/5  T4: 10/10  Q4.1: 10/10  Q4.2: 15/15  Total: 95/100
 ASSIGNMENT <a href="#">Exercise 3</a>	97.50	Student number (from Oodi): /  Email address: /  T1 (25): 25/25  T2 (10): 10/10  Q2.1 (15): After the first episode only the states that were in that episode will have non-zero values and those values are alpha * 1, since all rewards are 1 for CartPole. - 12.5/15  T3 (10): 10/10  Q3.1 (5): 5/5  Q3.2 (15): 15/15  T4 (5): 5/5  Q4.1 (15): 15/15  Total: 97.5/100
 ASSIGNMENT <a href="#">Exercise 4</a>	94.00	DQN_Q3:stability RBF T1: 20/20  RBF Q1.1: 7/10  RBF Q1.2: 10/10  RBF Q1.3: 10/10  RBF T2: 9/10  Total: 56.0/60  RBF Task 1 (20 points)  If plots are all correct: 20 points  Else If Handcrafted features are correct: +2.5 points  Else If States featurized correctly: +2.5 points  Else If Terminal state handled correctly: +5 points  Else If Target is correct: +5 points  Else If one plot is missing: -1 point  RBF Question 1.1 (10 points)  Argue relation of state and value function is non-linear and therefore it cannot be learned directly with a linear approximator: 10/10  Discuss deeply about the features being non-linear but misses or doesn't mention the non-linear relation between action values and states: 8/10  Vague answer, e.g., dynamics non-linear, etc, bases observation on task 1 (we use an SGD regressor for the Q-values which is actually non-linear): 5/10  Says no without any argumentation: 1/10  Yes: 0/10  RBF Question 1.2 (10 points)  Full answer: reuse previous data, randomness in sampling from buffer creates less correlated training data: 10/10  Arguing it uses previous data: 5/10  Just say we use experience replay because it makes learning faster: 2/10  RBF Question 1.3 (10 points)  If say grid-based methods aren't sample efficient because they don't take similarities between states into account: +7 points  You need to discretize continuous state spaces, which means there are a lot of states that must be explored during training: +3 points  If say grid-based method may sometimes be sample-efficient, and provide a good explanation: 5/10 points  If say no, because the plot shows the grid-based method performs poorly: 2/10 points  If say no, without justifications: 1/10 points  If say yes, with poor or incorrect justification: 0/10 points  RBF Task 2 (10 points)  If Good plot: 10/10 points  If Incorrect axis labels, no legend, wrong axes: 5/10 points  If plotting the wrong thing (e.g., wrong dimension or value function): 0/10 points
 ASSIGNMENT <a href="#">Exercise 5</a>	98.00	Student number (from Oodi): /  Email address: /  T1a (15): 15/15  T1b (5): 5/5  T1c (5): 5/5  Q1.1 (15): Elaborating on how a well-chosen baseline increases the probability of actions leading to higher returns would strengthen the answer. - 13/15  T2 (10): 10/10  Q2.1 (5): 5/5  Q2.2 (5): 5/5  Q3 (15): 15/15  Q4.1 (5): 5/5  Q4.2 (10): 10/10  Q5 (10): 10/10  Total: 98/100
 ASSIGNMENT <a href="#">Exercise 6</a>	100.00	Email address: /  T1: 20/20  Q1.1: 10/10  Q1.2: 5/5  Q1.3: 10/10  Q1.4: 10/10  T2: 25/25  Q2.1: 10/10  Q2.2: 10/10  other: /  Total: 100/100
 ASSIGNMENT <a href="#">Exercise 7</a>	100.00	Email address: /  T1: 30/30  Q1.1: 5/5  Q1.2: 20/20  Q2.1: 10/10  T2: 30/30  Q2.2: 5/5  other: /  Total: 100/100
 ASSIGNMENT <a href="#">Final RL project</a>	100.00	
AGGREGATION  <b>Course total</b> Include empty grades.	<b>860.50</b>	



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