
Algorithm 1 Least Squares Temporal Differences (LSTD) Deep Q-Learning with Nonlinear Feature Extraction

- 1: Initialize Q-network weights w
 - 2: Initialize feature extraction network weights θ
 - 3: Initialize replay buffer D
 - 4: **for** $episode = 1$ to N **do**
 - 5: Initialize state S \triangleright Your Q-learning algorithm steps go here
 - 6: **end for**
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