

Q-learning algorithm for solving Traveling salesman problem

Author: Hmayak Mkhitarian, Lusine Tumanyan, Irina Minasyan and Liparit Hovhannisyan

In this report we investigate the feasibility of using reinforcement learning to solve combinatorial optimization problems. Particularly, we explore Q-learning, a fundamental technique in reinforcement learning. The study delves into the core principles of Q-learning, emphasizing its role to make optimal decisions in dynamic environments. Insights into algorithmic structures, challenges, and applications showcase the significance of Q-learning in advancing autonomous systems and decision-making processes.