

## عنوان مقاله:

Reinforcement Learning Application of Multi-Agent Path Planning

## محل انتشار:

دومین کنفرانس ملی تحقیقات کاربردی در مهندسی برق کامپیوتر و فناوری اطلاعات (سال: 1396)

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## خلاصه مقاله:

In this paper, we talk about the path planning problem of two robots. This robot routing has been trained through Reinforcement learning. In this paper, then, we are referring to reinforcement learning and the Q-learning method, and afterdefining the environment and problem constraints, defining the states vector and the actions vector, and defining the reward function, problem solved and simulation results are shown by using MATLAB software. The environment is a 7x8 cell that robots must learn to move towards the target point and pick up the target without colliding with obstacles, and then reach the goal point.

## کلمات کلیدی:

Reinforcement learning, Multi agent, Path Planning, Q-learning

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/660782>

