عنوان مقاله:

Solve the Rubik's Cube with Robot Based on Non-Invasive Brain Computer Interface

محل انتشار:

دوازدهمین کنفرانس ملی سیستم های هوشمند ایران (سال: 1392)

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خلاصه مقاله:

Main purpose of this project is to solve the Rubik's cube with a robot based on non-invasive brain-computer interface without using hands and only thinking about therubik's cube rotation. This method improves speed of solving and also helps disabled persons who they can't solve the Rubik's cubewith their hands. To this new idea we use Emotiv EPOC Neuroheadset to extract the brain activity signals and use LEGO Mindstorms NXT 2.0 robot as target to control and LabVIEW software to create functions and programs for analysis on extracted brain EEG signals to control target robot.

کلمات کلیدی:

component; Robot, Rubik Cube, Intelligent Control,Artifitial Intelligent, Brain Computer Interface

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