

عنوان مقاله:

A Strategy for Passing by Robot Soccer Players using Fuzzy Logic

محل انتشار:

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خلاصه مقاله:

This paper presents the implementation of an intelligent pass strategy for soccer robots using fuzzy logic. The proposed strategy includes calculating pass confidence and detecting the best destination robot for passing the ball to it. The most important factors of a proper pass are detected and are deployed to construct the inputs of fuzzy system. By utilizing the expert knowledge, the rule base of the fuzzy system is extracted empirically. To test the designed system a visual simulation environment is prepared which allows changing the position of players and detecting the best destination player and passing the ball to it. Testing the system in different cases showed that it can successfully detect a legitimate destination player.

کلمات کلیدی:

fuzzy logic, passing, rule base, soccer robots

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