

TUT-ChoNaSo Team Description

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1 Introduction

RoboCup is a pseudo simulation of Real Soccer. As Real Soccer is 3-D and RoboCup is only 2-D, Real Soccer is less efficient. For example, with Real Soccer the goalie's forward movement is restricted, whereas this is improved with RoboCup. However, so long as RoboCup simulates Real Soccer, effective features in Real Soccer are mostly effective with RoboCup. The agent can effectively learn human behaviors in the RoboCup field.

This paper focuses on how to incorporate Real Soccer and human reasoning in RoboCup.

2 Team Development

Team Leader: Makoto CHONAN

Team Member:

Makoto CHONAN(C)

- Department of Knowledge-based Information Engineering
- Toyohashi University of Technology
- Japan
- Master Student

3 Strategy

The strategy of TUT-ChoNaSo is "Zone Press". The significance of Zone Press is the ability to effectively balance the three defenses below. It is kept in the "high position" to make a defense line make it move forward and increase a

thickness to the attack and easy to support at this time. It is the thing that let's fight before you take a ball by force in as close a place as possible to the companion goal and set a swift attack from there and a companion player comes back for the defense. It is take ball from enemy in the cloase place to the enemy goal and attack before an enemy player comes back for the defense.

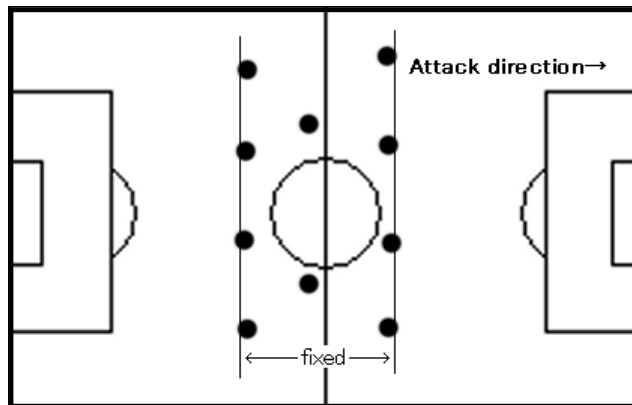


Figure 1: Zone Press

- Mark players; Intercepts passes.
- Mark spaces; Reduces free-space.
- Mark the ball; Steals the ball by forming numerical dominance around it.

As RoboCup is 2-D it is not necessary to consider the height, making Zone Press more effective in RoboCup than in Real Soccer.

4 Conclusion

By using Real Soccer strategy, we have been able to intercept the ball close to the opposition's goal. As a result we have decreased the points lost and increased scoring chances.

5 Further works

Now, the decision of the position in the attack is passive. This tactics will be more powerful if the position where it is easier to score can be found.