

Owaribito-CU

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1 Profile

The Owaribito robot soccer team has competed in RoboCup at Stockholm (1999) and Seattle (2001) as a joint team of Aichi Prefectural University and Chubu University. In Fukuoka (2002), Chubu University participated as an individual team. Owaribito-CU robot soccer team is from Chubu University.

2 This Year's Features

Use of a robot for undergraduate education

RoboCup small robots can be used as undergraduate educational materials. It is low cost and manufacture of the robot for education is possible. We investigate an education program for half year using RoboCup small robots. The program was designed for students at department of electronic and computer science. It is not difficult to develop omni-directional mechanism into the basic robot. In RoboCup 2003, we use the omni-directional robot.

A vision system with two unsynchronized cameras

In the case of defense and offense at the competition, a vision system has to get precise positions of the ball and robots especially around each goal area. The placement of two cameras has two advantages. One of them is better accuracy of the positions when the camera close to the ball is selected. The other one is that occlusion area occur only near the center line of the field and the occlusion area by our two camera system is less than that of single camera vision system.

3 Conclusion

We present that our robot was designed for a material of education program for robotics. And also we described a vision system with two unsynchronized cameras which has lesser occlusion of objects.