

RoboCup a Worldwide Research and Educational Project on the Intelligent Autonomous Mobile Robots

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Abstract: The paper describes the start of the project called RoboCup, and its long term goal written in a study dated 2000. There is a RoboCup Committee, organizing worldwide competitions and international symposiums to test the results of the project. The College of Nyiregyháza jointed in this project. Since we have entered in the project we have collected a large amount experiences and knowledge. Besides the resources about creating a robot, we met new educational method the Project Based Learning(PBL.). Multi-agents robot systems integrate results of many-many scientific fields and technological developments. In the mirror of the awards we can see which countries may be the winners of a new emerging industrial branch. At the end we report own research work on the project to develop robots according to the rules of the small size league (F180).

Keywords: RoboCup, education with robots, RCJ, small-size league, mechanical design