

Wireless communication in robot soccer: a case study of existing technologies

Abstract

This paper will explain about the communication technology between the host PC and the robots that are used in currently used by robot soccer manufacturer and also institutes that have robot soccer systems. It will explain about the requirement that are needed for a robot soccer system and takes a look at the technology that these systems employ. The technology is listed are commercially available technology, or of the market products. A comparison of the advantage and disadvantages of each technology is tabulated followed an experiment and its results with discussion on the obtained results is done.

Keywords — Bluetooth, communication technology, infrared, robot soccer, ultra high frequency, ultra wide band, zigbee