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Abstract:

Robots are quite adjustable with the human society. Especially in industries, hospitals, school-college, military in everywhere. But developing countries are much more behind with this. Food, cloths, shelter, education, health in every sector they are struggling. The authors choose one of the sectors of the basic needs, where robots can perform as a helpmate for hospitals or clinics. The helpmate uses wheel encoders and sensors information to steer. This paper presents mathematical modeling, hardware and electrical design and implementation of prototype differential drive helpmate robot, with a complete navigation system is aided by four types of behaviors which help to reach its destination successfully.

Keywords: Mobile robot, Helpmate, IR sensor, BBB.