

A FUZZY CONTROLLER FOR A HEALTH SERVICES MOBILE ROBOT

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The purpose of this paper is to present the devolvement of a fuzzy control applied for hospitals and health care centers mobile concept robot, the i-MERC. The robot and fuzzy controller models are presented as well as simulation results. The simulation application that was developed included the possibility to change de bending radius of the curves. To analyze the performance of the robot in following curves posing different dynamic demands simulations were performed considering curves with an abrupt change of direction and with 10, 20, 30, 40 and 50cm of radius. A virtual reality resource allows demonstrating the service concept with the purpose of searching stakeholders interested in the project.

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