Abstract

This paper discusses about a simple Humanoid platform EkInBot, specifically designed for Human Robot Interaction Using Dynamic Finger gestures. EkInBot stands for Electronically Interactive Robot and has 8 Degrees of Freedom. The paper emphasis on design and realization of a simplified humanoid robot and implementing finger gesture identification using a system analogous to Data Glove. The proposed gesture recognition mechanism has accelerometer sensors, that tracks finger movements and moves the robot with respect to it.

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Index Terms

Computer Science Automation

Keywords

Centre Of Gravity (cog) Centre Of Mass (com) Degrees Of Freedom (dof) Gestures Humanoid Robot Human Robot Interaction (hri)