Abstract

A stroke, which is a type of brain injury, often has negative effects on moving, talking, or thinking. Therefore, stroke victims should get in a physical rehabilitation process. The rehabilitation process is performed in a rehabilitation center. However, doing exercises at home is more convenient for patients and the cost is low. In this work, a mobile robot is used to develop a physical rehabilitation system based on a Kinect sensor. Moreover, the proposed system combined with a proposed person following system, so the robot is able to track and follow patients.

References

7. Lewis, C., Skelton, J., “Indexing and Retrieval for Xbox Kinect in-Home Rehabilitation System”.
8. Skelton, J., “Utilizing the Xbox Kinect to Help Facilitate At-Home Stroke Rehabilitation”.
10. Miles, R., Learn the Kinect API, O'Reilly Media, Inc., 2012
%7C1kviBKd0LEft5V8sr%7Cfi1bfMPHeJ*S0qBTrXnQwTCE/

Index Terms

Computer Science  Signal Processing

Keywords

Home Rehabilitation System, Kinect sensor, Stroke victims.