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

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**Index Terms**

Computer Science  
Signal Processing

**Keywords**

Home Rehabilitation System, Kinect sensor, Stroke victims.