
LOWER LIMB POWERED EXOSKELETON FOR PARAPLEGIC PEOPLE ASSISTING IN THEIR WALKING AUGMENTATION USING FLEX SENSOR AND ACCELEROMETER

ABSTRACT

The integration of medical science and engineering has made the task like complicated surgery by robotic arm simpler. To capture the motion of human limbs, sensors can be used. These units can be worn for video game character modeling, virtual reality, and activity recognition. The arm moment is reciprocated almost exactly by the robotic arm. Data capture is achieved with the special motion capture sensor called “Shape Tape” that is worn by the human operator. Any human arm or even leg, neck or spine moment can be mapped on to any of the robotic arm manipulator. Flex sensor robotic arm deals with controlling a bionic/robotic arm with the help of motion sensing technology by Flex Sensors. The system is basically a master-slave system wherein the master motion sensing glove sits on hosts’ arm sensing motions of the finger and then using this data to control the servos which control the finger movement of the slave bionic/robotic arm. And a 3-axis sensor or tilt sensor is used for the movement of the arm to move upwards and down.

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