

An Assistive Robotic Arm for Defence and Rescue Application

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Abstract : "Assistive Robotics" is the field that deals with the study of robots that helps in human motion and also empowers human abilities by interfacing the robotic systems to be manipulated by human motion. The proposed model is a robotic arm that works as a haptic interface on the basis on accelerometers and DC motors that will function with respect to the movement of the human muscle. The proposed model would effectively work as a haptic interface that would reduce human effort in the field of defense and rescue. This can be used in very critical conditions like fire accidents to avoid casualties.

Keywords : accelerometers, haptic interface, servo motors, signal processing

Conference Title : ICRASP 2014 : International Conference on Robotics, Automation and Signal Processing

Conference Location : Singapore, Singapore

Conference Dates : March 30-31, 2014