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Title: An Arduino based smart hand gloves for load control and physician notification

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Abstract:

Spinal cord trauma and strokes are the main causes of paralysis. In this research, a new idea has been developed by designing a smart glove. This glove can be used by the parallelized person to interact with other people by giving a symbol through this wearable glove. The principal objective of this research is to identify finger position of a person and give an emergency command to the nurse or doctor about the patient condition. In addition to that patient also can control loads of a certain room by moving fingers. This smart device consists of a glove with flex sensors and an electrical conditioning circuit. It bends with the finger and leads to selective regulation. The emphasis of this paper is on the exploration and implementation of a finger position measurement system for one hand. Moreover, it can be used for therapy and here medicinal application has been concentrated which shows the intimacy between the patient, doctor, and nurse.