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Human Machine Interface Glove Using Piezoresistive Textile Based Sensors

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Human machine interface technology is focused upon new ways of interaction between human beings and machines. Gesture recognition gloves are getting increasingly popular as human-machine interface devices. Conventionally, these gloves use electronic sensors to sense different hand gestures. As electronic sensors are bulky and uncomfortable, we propose a glove with textile-based piezoresistive sensors. This glove is flexible, more comfortable and cheap as compared to the conventional human machine interface gloves. We have examined that this glove can effectively sense our gestures and can be used for teleoperations, sign language to speech conversion systems and gaming.

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