Gesture recognition using multi-sensory data (Technion)

code: COM-1648

The field of motion recognition systems (e.g. facial recognition) is continuously developing. Included in this is hand-gesture recognition, through which we aim to understand the articulated nature of the hand as a set of joint angles and positions. Current methods involve visual markers such as painted gloves, stickers or LEDs attached to the hand and observed by cameras, which fail to capture the complexity of the articulations. This new method synchronizes magnetic sensors with camera images and records matched image-articulation pairs aligned in both time and position. The elastic, sensory finger loops used for this have minimal impact on finger profile and do not impede natural motion, making this an accurate and efficient method.

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