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(57) Abstract :

An assistive device for supporting fair bowling actions, comprising a wearable body 1 equipped with a spatial motion sensor 2 for sensing linear acceleration, angular velocity and orientation of a user's hand while bowling in the nets, a microcontroller integrated with the sensor 2 for receiving and processing data(s) by comparing the data(s) with a pre-stored data present in a database, wherein the microcontroller generates a command in case the sensed data(s) alters in respect to the pre-stored data(s), a self-balancing stick 4 employed with a pair of reaction wheels 5 for stabilizing orientation of the user's hand by maintaining inertia to assist the user in bowling fair deliveries, a thermal imaging camera 3 for detecting swelling, pain and redness in the user's hand while continuously bowling at the nets, wherein a communication module sends alerts to a computing device of a concerned authority regarding the swelling, pain and redness. Ref. Figure 1 and 2

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