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(57) Abstract :

The present invention relates to a smart walking assistive system comprising a pair of rods 1 connected together through a set of electromagnets, a pair of handles 4 installed on the rods 1 to be gripped by a visually impaired user, multiple ultrasonic sensors 3 fabricated on the rods 1 for determining obstacles encountered by the user while walking, multiple wheels 2 integrated on the rods 1 for altering direction of the wheels 2, an image capturing module 5 installed on the rods 1 for determining presence of obstacle overhead of the user, a pair of ear wearables worn on the user's ear for receiving alert regarding overhead obstacles, a hydraulic actuator 6 configured on the rods 1 for separating the rods 1 in case of huge crowd and a display unit 7 integrated on the rods 1 for displaying important messages for the crowd to give way to user.

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