

Review of: "Design and Realization of a Low-Cost Smart Walking Aid for Visually Impaired and Blind People"

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Potential competing interests: No potential competing interests to declare.

Commend the Authors for this interesting device which assembles various ultrasonic sensors for detection. The device appears interesting as a new device for safe walking. However its clinical utility on the field would require certain testing:

It would be necessary to assess whether input received from three sensors may confuse the blind person. How does the person process input from one sensor, react to it and then switch the neuro-cognitive system to negotiate input received from another sensor.

Rigorous clinical testing on the field is essential to understand the effectiveness of the device.

Provide, a detailed description on the safety of the device. Is the device compatible for uneven walking surfaces.

A thorough review of the literature will help to summarize the international policies/guidelines (including the UN) for safety of the people with visual impairment and how this device addresses the gap in the need of these people with respect to walking safety over and above the devices available in the market.