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(57) Abstract :

ABSTRACT Our Invention Third eye uses Image Processing to detect the obstacles and its nature this information reaches the visually impaired through ear phones and the location information of the person reaches his/her guardian through the Third Eye app. These distinct features of The Third Eye make it stand out the other blind tools and also a assistive device includes a sensor that detects information using a first modality; an actuator that conveys information using a second different modality; and a controller that automatically receives information from the sensor and operates the actuator to provide a corresponding actuation. The invention is a sensory assisting system for a user includes assistive devices and a support the user wears to hold the devices in proximity to body parts and the fields of view of the devices' sensors extend at least partly outward from the body parts. The controller reads the sensors and operates the corresponding actuators. The invention is a method of configuring a sensory assisting system includes successively activating actuators and receiving corresponding user feedback; determining perceptibility relationships for devices per the feedback and repeatedly activating the actuators per a virtual environment, a user avatar position, and the relationships; receiving a user navigation command and moving the user avatar. The invention is also including a Ultrasound is used to determine, by echo ranging, the distance of objects in front of a user for allowing a visually impaired pedestrian to walk safe and a double circuit allows two simultaneous measurements. Distances measured are converted into human paces or steps. Then each ear of the human receives measurement information. The user can calibrate the apparatus for his or her own stride

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