

Group6Abstract

We aim to provide better navigation service for deliverymen who find it challenging and dangerous to navigate using mobile phones given their nature of work and means of transport. So we design a smart glass application, Eyecompass, which has a voice broadcast functionality and assisted navigation system.

Commonly speaking, deliverymen have to juggle between carrying loads of delivery and navigating with phones, or putting up with looking at their phones fixed by a stand on their motorbikes for direction during transit.

Our supposed solution is using hand-free actions, such as nodding, with automatic detection of eyewear orientation and calculation of remaining time to help deliverymen navigate and receive time cues.

One advantage of our app is the consistency in the orientation of the glasses and our eyes for more intuitive navigation, which the mobile phones can not provide. And glasses can be worn stably on our heads so we can free our hands.

The preliminary evidence to support our claims is that we can use the GPS positioning and the gyroscope to determine the orientation, and guide the user forward.