

USEE GLASS:

A MOBILE USABILITY RESEARCH TOOL



TECHNOLOGY BRIEF

The USee app provides a potential solution for usability observation in a mobile environment. The convenience of this mobile solution comes at the cost of limitations related to visual angle, image quality, screen size, and battery life.

IP PROTECTION

US Patent 9,866,757

RESEARCHER



Dr. Jibo He is an Associate Professor of Psychology at Wichita State University. At WSU Dr. He is in charge of the Human Automation Interaction Laboratory, which he uses to focus his research on driver distraction,

attention and eye movement, human computer interaction, and computer vision. Dr. He has experience with data mining and extraction, user-centered design, and eye tracking technology. Over the years, Dr. He has written 25 peer-reviewed journal articles, and he has been granted over a million dollars for research from the National Science Foundation.

Product evaluation of usability is viable at the end of each design cycle. Usability tests assess how users interact with software applications for the pursuit of creating successful user interactions. Over the years, testing environments have been produced for monitoring the user friendliness of applications. For example, for web-based applications, assessments have been conducted by monitoring mouse-clicks, keyboard use, and the monitor's web-camera. However, since many user interfaces are now targeted for mobile devices, this invention is a new way of monitoring applications for mobile usage.

ADVANTAGES

USee is compatible with Google Glass, smartphones, tablets, and smartwatches. USee connects the researcher on a remote computer to cameras on or near a user's eyes, so companies can assess and make note of flaws in their products based off the point of view of the user.

APPLICATIONS

With uSee, remote observers can view the scenes directly from a camera mounted near the users' eye, which offers researchers a scene from the users' point of view. Alternatively, a researcher can wear Google Glass and use the uSee application to record user video and communicate with remote observers. In addition, usability researchers can log important events by simply tapping the Google Glass stem.

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