

Exploiting Augmented Reality in Virtual Shopping

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Abstract—Augmented reality (AR) is the integration of digital information with the user's environment in real time. Unlike virtual reality, which creates a totally artificial environment, augmented reality uses the existing environment and overlays new information on top of it which is achieved in the introduced model. This model represents AR applications for smartphones typically include global positioning system (GPS) to pinpoint the user's location and its compass to detect device orientation.

Thus if it is used by the military for training it may include machine vision, object recognition and gesture recognition technologies. With the help of advanced AR technology (e.g. adding computer vision and object recognition) the information about the surrounding real world of the user becomes interactive and digitally manipulated. So, this model is used to display variety of products on walls of train stations, streets and bus stops. Consumers could scan the QR codes of the products with smartphones to get product specification, and place their orders as a list.

Keywords-- Personal Assistant, Text to speech, Speech to text, Raspberry Pi, Voice Command System, Query Processing Machine Learning.

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