

# Heads-up Engagement with the Real World: Multimodal Techniques for Bridging the Physical-Digital Divide

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## **ABSTRACT**

The vast and ever-increasing collection of geo-tagged digital content about the physical world around us has prompted the development of interaction methods for various different scenarios. However, the map-based views common on desktop computers are not always appropriate when considering mobile usage. The aim of this research is to provide suitable methods that can encourage user interaction with geo-located digital content, avoiding unnecessary interference with the user's immersion in the physical world around them. This extended abstract outlines the work published to date, suggests future areas of research, and highlights the key contributions brought to the HCI community.

## **Keywords**

Mobile, multimodal, heads-up, engaging, interaction, location-aware, geo-web, haptics, sensors.

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