

ReachMedia: On-the-move interaction with everyday objects

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Abstract: Mobile and wearable interfaces try to integrate digital information into our everyday experiences but usually require more attention than is appropriate and often fail to do so in a natural and socially acceptable way. In this paper we present "ReachMedia," a system for seamlessly providing just-in-time information for everyday objects, built around a wireless wristband with an RFID reader to detect objects that the user is interacting with. It enables hands- and eyes- free interaction with relevant information using a unique combination of audio output and gestural input, allowing socially acceptable, on-the-move interaction. This paper will focus on the general merits of the design, and the novel gesture recognition technique used, showing 95% classification rate using the real-time online classification system. © 2005 IEEE. (23 refs.)