REVEL: Tactile Feedback Technology for Augmented Reality

【Summary】：

REVEL is a new augmented reality (AR) tactile technology. Using a device worn by the user, REVEL changes the tactile feeling of real objects by augmenting them with virtual tactile textures.

【Design】：

Figure 3 presents the design of an AR tactile display based on reverse electrovibration using REVEL. A tactile signal generator (Figure 2) worn by the user communicates with an AR display and a context-sensing system.

【REVEL meets two key requirements】：

First, the surface of the object or object it is in must be conductive and must be covered with a very thin insulator (Figure 1). Second, the conductive surfaces of the object and the haptic signal generator should share a common electrical ground.

 