PORTABLE ENGINE FOR ENTERTAINMENT, EDUCATION, OR COMMUNICATION

Abstract

To simplify human-machine interaction, a portable interaction module includes multiple channels through which input is received. Different types of input mechanisms or sensors allow use of multiple techniques for capturing input, such as motion sensing, audio sensing, image tracking, image sensing, or physiological sensing. A fusion module included in the portable input device receives data from the input mechanisms or sensors and generates an input description identifying which input mechanisms or sensors receive data. The input description is communicated to a target device, which determines an output corresponding to the input description. Using multiple input capture techniques simplifies interaction with the target device by providing a variety of methods for obtaining input.

(Figure 4)