

Tracker Modalities for Virtual Environments - A Comparison of Some Performance Characteristics

ABSTRACT: In this paper the authors present a comparison of some performance characteristics of two motion tracking modalities for use in a virtual environment. Ascension Technology's Flock of Birds is an electromagnetic tracking system. Intersense's IS- 600 uses a combination of ultrasonic, infrared, and inertial principles. Case studies were performed for both tracking systems to study static distortion, temporal stability, and the effect of metal. The requirements of the virtual reality application would ultimately guide the choice of the tracker modality.