ABSTRACT

A method and system (102) for determining a refined absolute position and refined absolute orientation of an entity (200) in a navigation space is provided. The system includes sensors (104), a coarse absolute position and orientation estimation unit (106) to determine a coarse absolute position and/or a coarse absolute orientation (108) of entity based on a position data captured by sensors at predefined frequency/interval, a relative position and orientation estimation unit to determine a relative position and/or a relative orientation, of entity based on data captured from sensors, a navigation guidance unit (110) to provide and update unique attributes of navigation space, and an analytics unit (112) to determine a refined absolute position or a refined absolute orientation of entity by fine-tuning the coarse absolute position based on relative position and the coarse absolute orientation based on relative orientation using navigation map.

[FIG. 1]