

and zoom in and out. With the baseline 2D system, users can toggle the display of time labels, pan, and zoom in and out of a portion of the map. That is, the space time cube should preferably beat the baseline in at least some aspect to merit further research by the information visualization community.

### 3.1 Space Time Cube System

To perform our investigation, we developed a space time cube system capable of rendering walking data traces inside a cube (see Fig. 2