ABSTRACT

An information processing apparatus generates heart shape data indicating a three-dimensional shape including an internal structure of a heart of a subject based on echo image data indicating a cross-sectional image of the heart. The information processing apparatus then generates thorax shape data indicating a three-dimensional shape of a thorax of the subject based on X-ray image data indicating an X-ray image of the thorax of the subject. The information processing apparatus then decides, based on an image of the heart appearing in the X-ray image, a position and an orientation of the three-dimensional shape of the heart indicated by the heart shape data within the three-dimensional shape of the thorax indicated by the thorax shape data.

FIG. 1