TRAINING APPARATUS, CAMERA ADJUSTMENT APPARATUS, TRAINING METHOD, CAMERA ADJUSTMENT METHOD, AND STORAGE MEDIUM

[ABSTRACT]

A training apparatus 3000 acquires image data 110 generated by one or more cameras 100 and acquire one or more camera parameters 130 from an agent 40. The agent 40 is configured to take first two-dimensional features data 120 including two-dimensional features extracted from the image data 110 to compute the camera parameters 130 based on the first two-dimensional features data 120. The camera parameters 130 determine an orientation, a focal length, or a position of the camera 100. The training apparatus 3000 generates second two-dimensional features data 150 that includes two-dimensional features predicted to be extracted from image data captured by the camera 100 that is configured with the camera parameters 130. The training apparatus 3000 evaluates the second two-dimensional features data 150 to compute an evaluation score 160, and updates trainable parameters of the agent 40 based on the evaluation score 160.

Fig. 1