

INFORMATION PROCESSING APPARATUS, INFORMATION PROCESSING METHOD AND INFORMATION PROCESSING PROGRAM

ABSTRACT

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A camera control section (21) fixes among parameters for photographing which are set in a camera (1), another parameter than exposure time, and causes the camera (1) to photograph a photographing target area while changing the exposure time. An image acquisition section (11) acquires N ($N \geq 3$) images of the photographing target area acquired by photographing by the camera (1). A model generation section (100) extracts for each pixel position, pixel values of a same pixel position from the N images, and generates a model indicating for each pixel position, a relationship between exposure times and pixel values, based on the extracted pixel values of the same pixel position and an exposure time at a time of photographing of each of the N images. A luminance value calculation section (52) calculates a luminance value for each pixel position, using the generated model and a luminance coefficient. A luminance distribution generation section (61) generates a luminance distribution of the photographing target area, using the luminance value of each pixel position.

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FIG. 1