

Abstract

**IMAGE PROCESSING DEVICE, IMAGE PROCESSING METHOD, AND
IMAGE PROCESSING PROGRAM**

A parameter obtaining unit (204) extracts, from a first captured image that is a
5 captured image in which an image-capturing space where a subject exists is captured
and the subject is shown, a subject image that is an image of the subject, and generates a
plurality of reference images in which a plurality of subjects exist in the
image-capturing space based on the extracted subject image while varying number of
subjects existing in the image-capturing space for each reference image. A
10 person-number analyzing unit (206) compares a second captured image that is a
captured image of the image-capturing space at an image-capturing time different from
an image-capturing time of the first captured image with the plurality of reference
images, and estimates number of subjects shown in the second captured image.