

ABSTRACT

Image Processing Method, Image Processing Device and Surface Inspection Device Using the Image Processing Device

5 It is aimed to provide an image processing method
capable of obtaining an image having an image processing
properly performed in an area of an edge part of an object
surface image. The image processing method includes an image
obtaining step of obtaining an image to be processed
10 represented by pixel-based gray values and including an
object surface image (S11); an edge image specifying step of
specifying an image including an edge line of the object
surface image set in the image to be processed and located
in an area with a predetermined width in a direction
15 orthogonal to the edge line as an edge image (S13); a
conversion step of converting the edge image into a
rectangular image with a width equivalent to the
predetermined width (S14); an image processing step of
performing a one-dimensional image processing on the
20 rectangular image to successively process the gray values of
a plurality of pixels arranged in a direction orthogonal to
a width direction of the rectangular image (S15); and an
inverse conversion step of generating a processed edge image
by inversely converting the rectangular image having the
25 one-dimensional image processing performed thereon into an
image in the original area (S16).

[Selected Figure] FIG. 16