

Automatic Extraction Of Pedestrian Path From Street Image

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Abstract

This invention relates to a method and system for extracting pedestrian path from one of a plurality of images captured from a side of a road. The method performs in the following manner. The method receives an image from the plurality of
10 images and filters a predetermined type of pixels in the received image to form a first image. The edge lines in the received image are filtered to form a second image.

The first and second images are then combined to form a third image having a first side, a second side, a top side, and a bottom side. A line is drawn for each of N sample points distributed on the first side of the third image. A number of white pixel
15 counts for each of the line of the N sample points is determined and stored in a register. The method then plot a histogram based on the number of white pixel counts stored in the register against the N sample points. A position of a pedestrian path in the image based upon a peak above a predetermined threshold line of the histogram is determined.

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Figure 5