

ABSTRACT OF THE DISCLOSURE

IMAGE PROCESSING DEVICE, IMAGE PROCESSING METHOD AND VEHICLE MONITORING SYSTEM

An image processing device receives video signals from monitoring cameras placed along the road. The device defines sampling areas arranged in the vehicle travelling direction of the road and extracts images from the sampling areas in the images represented by the video signals. The device combines the extracted images into an image representing the continuous road and detects the vehicle in the combined image. Even when the image of the vehicle is located across the sampling areas, the full image of the vehicle is represented on the combined image. Therefore the vehicle can be accurately detected and tracked.

Figure 2.

