

ABSTRACT

The present application is applicable to the technical field of image recognition, and provides a method and device for vehicle identification, the method comprises: obtaining a first vehicle image and a second vehicle image, wherein the first vehicle image comprises a first vehicle, and the second vehicle image comprises a second vehicle; extracting a first color feature and a first vehicle type feature of the first vehicle, and extracting a second color feature and a second vehicle type feature of the second vehicle based on a convolutional neural network model; combining the first color feature and the first vehicle type feature into a first vehicle feature, and combining the second color feature and the second vehicle type feature into a second vehicle feature; calculating a similarity parameter between the first vehicle feature and the second vehicle feature; and determining whether the first vehicle is the same one as the second vehicle according to the similarity parameter. In the present application, by taking the advantage of the convolution neural network model in the aspect of image feature extraction, by using the vehicle color feature and the vehicle type feature to perform a vehicle verification, and by digging out differences among the features through training the joint Bayesian model, so that whether the same vehicle is recorded in two images can be accurately recognized.