

Abstract

AN IMAGE PROCESSING METHOD AND APPARATUS

The present application relates to the field of image processing, and discloses an image processing method and device, and a medium. The image processing method of the present application includes: obtaining an image; processing the image into at least one layer of image data on an input layer of the neural network model; inputting the image data into a hidden layer of the neural network model for processing to obtain local high-dimensional feature data of the image data, where the hidden layer of the neural network model includes a plurality of processing units, and at least one or more processing units among the plurality of processing units are interconnected and connected to output of the input layer; and outputting a feature map of the image, where the feature map of the image is obtained by pooling and fusing local high-dimensional features of the image data. Compared with the image processing method in the prior art, In the process of image processing the present application is capable of alleviate information loss and gradient confusion effectively, reduce computational costs and remove of redundant parameters from the neural network effectively, reduce computational complexity and improve classification accuracy of images, the internal structure of the computer system can be more streamlined, allowing image processing to be applied in lightweight neural networks such as mobile devices.

(FIG. 4)