

IMAGE DECODING METHOD AND APPARATUS BASED ON NEURAL NETWORK, IMAGE ENCODING METHOD AND APPARATUS BASED ON NEURAL NETWORK, AND DEVICE THEREOF

ABSTRACT

Provided in the present disclosure are an image decoding method and apparatus based on a neural network, an image encoding method and apparatus based on a neural network, and a device thereof. The image decoding method comprises: decoding, from a code stream, a control parameter and image information, which correspond to the current block; acquiring, from the control parameter, neural network information corresponding to a decoding processing unit, and on the basis of the neural network information, generating a decoding neural network corresponding to the decoding processing unit; and on the basis of the image information, determining an input feature corresponding to the decoding processing unit, and processing the input feature on the basis of the decoding neural network, so as to obtain an output feature corresponding to the decoding processing unit. By means of the present disclosure, the encoding performance and the decoding performance can be improved.

FIG. 3