

ABSTRACT

Disclosed in the present application are a data processing method and related apparatus, and a device and a storage medium. The method comprises: sending to a server K images which are captured in the current site environment, and the server acquiring K first prediction results by means of an image recognition model; constructing a fine-tuning training set according to the K images and the K first prediction results; by means of a model to be trained, acquiring a second prediction result of each image in the fine-tuning training set; according to the second prediction result of each image and a first prediction result of the image in the fine-tuning training set, updating model parameters of the model to be trained, so as to obtain a local recognition model and model tuning parameters; and if a model fine-tuning condition is met, sending the model tuning parameters to the server, and the server updating model parameters of the image recognition model according to a set of model tuning parameters. Thus, the present application enables an image recognition model to be applicable to various site environments, improves the precision of model recognition, and also saves on processing resources of a server and improves the efficiency of model learning.

FIG. 3