

METHOD AND APPARATUS FOR TRAINING RELATIONSHIP RECOGNITION MODEL AND METHOD AND APPARATUS FOR ANALYZING IMAGE

ABSTRACT

5 Implementations of the present specification provide a method for training a
relationship recognition model and a method and an apparatus for analyzing an image
by using the model. The training method includes: dividing a total relationship class
set into K groups, and correspondingly setting K classifiers, where the kth
classification space corresponding to any kth classifier includes classification space
10 corresponding to a previous classifier and relationship classes in a kth group;
sampling a full set of image samples for the K classifiers to obtain K sample subsets
respectively, and inputting the K sample subsets to corresponding classifiers to obtain
relationship class prediction results between objects in images; and determining a first
loss based on classification losses of the K classifiers, and determining a second loss
15 based on a similarity between relationship class prediction results of different
classifiers in the K classifiers for a same pair of objects, so that a relationship
recognition model is updated based on the first loss and the second loss.

Figure 6