

PREPROCESSING METHODS AND APPARATUSES FOR REMOTE SENSING IMAGES, AND REPRESENTATION DETERMINING METHODS AND APPARATUSES FOR REMOTE SENSING IMAGES

ABSTRACT

Embodiments of this specification provide preprocessing methods and apparatuses for remote sensing images, and representation determining methods and apparatuses for remote sensing images. In a pre-training stage of a remote sensing model, a global remote sensing image can be divided into a plurality of sub-image regions, and a plurality of image point features in the sub-image regions can be determined by the feature extraction model. Then, image points are clustered based on the image point features, and cluster centers corresponding to image points in the sub-image regions are obtained. The cluster centers can be used as representations of the sub-image regions. In a fine-tuning stage of the remote sensing model, when a remote sensing image is obtained, the remote sensing image can be matched with the sub-image region in the global remote sensing image, and corresponding target image points can be found from the matched sub-image region. Feature fusion is performed on cluster centers corresponding to the target image points and the remote sensing image to obtain a representation of the remote sensing image, and the representation can then be used to interpret the remote sensing image. A remote sensing image includes privacy data, and privacy protection is needed in a data processing process.

FIG. 1