What is claimed is:

1. A method for assessing image quality, comprising:

performing target detection on an image to be assessed, to determine at least one target region;

performing quality assessment on the at least one target region in the image to be assessed respectively, to determine at least one quality assessment result of the at least one target region; and

performing quality assessment on the image to be assessed, based on the determined at least one quality assessment result of the at least one target region;

wherein, the performing target detection on an image to be assessed comprises:

classifying contours of a binary image obtained from the image to be assessed, to determine text contours;

combining texts in a specified direction based on the determined text contours, to determine the at least one target region; and

the contours of the binary image are classified based on parameters determined by at least one of following operations:

determining the number of non-zero pixels within the contour of the binary image;

determining a height-width ratio and a width-height ratio of the contour of the binary image;

determining the number of similar-width contours and the number of similar-height contours existing within a specified direction neighborhood range within the specified direction of the contour of the binary image.

2. The method for assessing image quality according to claim 1, wherein a means of the performing target detection on the image to be assessed comprises any one of following manners:

a conventional feature extraction manner and a depth feature extraction manner.

3. The method for assessing image quality according to claim 1, wherein the combining texts in a specified direction based on the determined text contours comprises:

performing a dilation operation and an erosion operation on the determined text contours in the specified direction by setting a dilation operator and an erosion operator.

4. The method for assessing image quality according to any one of claims 1-3,

wherein the performing quality assessment on at least one target region in an image to be assessed respectively comprises:

determining the at least one quality assessment result of the at least one target region based on the at least one target region and an image quality assessment model.

5. The method for assessing image quality according to claim 4, wherein the determining the at least one quality assessment result of the at least one target region based on the at least one target region and an image quality assessment model comprises:

determining the image quality assessment model by using a training approach based on deep learning, and determining the at least one quality assessment result of the at least one target region based on the at least one target region and the image quality assessment model.

6. The method for assessing image quality according to any one of claims 1-5, wherein the performing quality assessment on the at least one target region respectively comprises:

performing quality assessment on the at least one target region based on statistics of gray values of pixels.

7. The method for assessing image quality according to any one of claims 1-6, wherein the performing quality assessment on the image to be assessed, based on the determined at least one quality assessment result of the at least one target region comprises:

performing quality assessment on the image to be assessed in a quality weighted average manner based on the determined at least one quality assessment result of the at least one target region.

8. The method for assessing image quality according to any one of claims 1-7, wherein the performing quality assessment on the at least one target region respectively to determine the at least one quality assessment result of the at least one target region comprises:

performing quality assessment on the at least one target region respectively by using a non-reference quality assessment indicator, to determine the at least one quality assessment result of the at least one target region,

wherein the non-reference quality assessment indicator comprises at least one of Edge-Strength, Noise-rate and Uniform Brightness-Distribution.

9. A device for assessing image quality, comprising:

a target detection unit, configured to perform target detection on an image to be assessed, to determine at least one target region;

a target region quality assessment unit, configured to perform quality assessment on the least one target region in the image to be assessed respectively, to determine at least one quality assessment result of the at least one target region;

a to-be-assessed image quality assessment unit, configured to perform quality assessment on the image to be assessed, based on the determined at least one quality assessment result of the at least one target region;

the target detection unit comprises:

a contour classification unit, configured to classify contours of a binary image obtained from the image to be assessed, to determine text contours;

a text combination unit, configured to combine texts in a specified direction based on the determined text contours, to determine the at least one target region; and

the contour classification unit is further configured to: classify the contours of the binary image based on parameters determined by at least one of following operations:

determining the number of non-zero pixels within the contour of the binary image;

determining a height-width ratio and a width-height ratio of the contour of the binary image;

determining the number of similar-width contours and the number of similar-height contours existing within a specified direction neighborhood range within the specified direction of the contour of the binary image.

10. The device for assessing image quality according to claim 9, wherein a means of the target detection unit performing target detection on the image to be assessed comprises any one of following manners: a conventional feature extraction manner and a depth feature extraction manner.

11. The device for assessing image quality according to claim 9, wherein the text combination unit is further configured to: perform a dilation operation and an erosion operation on the determined text contour in the specified direction by setting a dilation operator and an erosion operator.

12. The device for assessing image quality according to any one of claims 9-11, wherein the target region quality assessment unit is further configured to: determine the at least one quality assessment result of the at least one target region based on the at least one target region and an image quality assessment model.

13. The device for assessing image quality according to claim 12, wherein the target region quality assessment unit is further configured to:

determine the image quality assessment model by using a training approach based on deep learning, and determine the at least one quality assessment result of the at least one target region based on the at least one target region and the image quality assessment model.

14. The device for assessing image quality according to any one of claims 9-13, wherein the target region quality assessment unit is further configured to: perform quality assessment on the at least one target region based on statistics of gray values of pixels.

15. The device for assessing image quality according to any one of claims 9-14, wherein the to-be-assessed image quality assessment unit is further configured to:

perform quality assessment on the image to be assessed in a quality weighted average manner based on the determined at least one quality assessment result of the at least one target region.

16. The device for assessing image quality according to any one of claims 9-15, wherein the target region quality assessment unit is further configured to: perform quality assessment on the at least one target region respectively by using a non-reference quality assessment indicator, to determine the at least one quality assessment result of the at least one target region, wherein the non-reference quality assessment indicator comprises at least one of Edge-Strength, Noise-rate and Uniform Brightness-Distribution.

17. A computer device, comprising a memory, a processor and a computer program stored on the memory and executed by the processor, wherein when the computer program is executed by the processor, the method according to any one of claims 1-8 is implemented.

18. A computer storage medium on which an executable program executed by a processor is stored, wherein when the executable program is executed by the processor, the method according to any one of claims 1-8 is implemented.