CLAIMS

1. A method for image processing, comprising:

acquiring at least one frame of game platform image;

detecting the at least one frame of game platform image to obtain a detection result of each of the at least one frame of game platform image, the detection result at least comprising position information of at least one money substitute; and

under a condition that the position information of the at least one money substitute meets a preset alerting condition, generating first alert information,

wherein the method further comprises:

determining a target region where the at least one money substitute is located in according to the position information of the at least one money substitute and predetermined game platform image region division information, the game platform image region division information comprising position information of multiple target regions obtained by performing region division on a game platform; and

determining whether the position information of the at least one money substitute meets the preset alerting condition according to the target region where the at least one money substitute is located in;

wherein determining whether the position information of the at least one money substitute meets the preset alerting condition according to the target region where the at least one money substitute is located in comprises:

under a condition of determining that the at least one money substitute is located in at least two predetermined target regions, determining that the position information of the at least one money substitute meets the preset alerting condition, the predetermined target region comprising a region, where the at least one money substitute is allowed to be located in, in the target region.

2. The method of claim 1, wherein determining whether the position information of the at least one money substitute meets the preset alerting condition according to the target region where the at least one money substitute is located in further comprises:

determining an area of a part of the at least one money substitute located within each predetermined target region in the game platform according to the position information of the at least one money substitute and the predetermined game platform image region division information, the predetermined target region representing a target region where money substitute is allowed to be located in; and

in response to the area of the part of the at least one money substitute located within each predetermined target region in the game platform being less than an area threshold, determining that the position information of the at least one money substitute meets the preset alerting condition.

3. The method of claim 1 or 2, wherein the position information of the at least one money substitute comprises a position of a center point of the at least one money substitute; and

the method further comprises:

determining a target region where the center point is located in according to the position information of the at least one money substitute and the predetermined game platform image region division information, and

in response to the center point being located in a non-predetermined target region, determining that the position information of the at least one money substitute meets the preset alerting condition, the non-predetermined target region representing a region where money substitute is not allowed to be located in.

4. The method of claim 1 or 2, wherein determining the target region where the at least one money substitute is located in according to the position information of the at least one money substitute and the predetermined game platform image region division information comprises:

under a condition that the position information and size information of the at least one

money substitute are represented by a detection box for the at least one money substitute, meshing the detection box for the at least one money substitute;

extracting a preset number of feature points of the at least one money substitute from each divided mesh; and

determining the target region where the at least one money substitute is located in according to a target region where each of the multiple feature points extracted from each divided mesh is located in.

5. The method of any one of claims 1-4, wherein the detection result further comprises attribute information of the at least one money substitute; and

the method further comprises: under a condition that the position information of the at least one money substitute does not meet the preset alerting condition, determining whether the attribute information of the at least one money substitute meets an attribute constraint corresponding to the target region where the at least one money substitute is located in according to the game platform image, and

under a condition that the attribute information of the at least one money substitute does not meet the attribute constraint corresponding to the target region where the at least one money substitute is located in, generating second alert information.

6. The method of claim 5, wherein the attribute information comprises at least one of a denomination, a type, an amount, or ownership information.

7. The method of any one of claims 1-6, wherein the at least one frame of game platform image comprises N frames of game platform images; and

detecting the at least one frame of game platform image to obtain the detection result of each of the at least one frame of game platform image comprises:

under a condition of determining the N frames of game platform images each time using a sliding window, determining a detection result of each of the N frames of game platform images according to detection results of the N frames of game platform images in the sliding window, N being an integer greater than 1.

8. The method of claim 7, wherein determining the detection result of each of the N frames of game platform images according to the detection results of the N frames of game platform images in the sliding window comprises:

determining attribute information of a same group of money substitutes in the detection results of the N frames of game platform images by target tracking; or, determining attribute information of each group of money substitutes of which a confidence is more than or equal to a confidence threshold in the detection results of the N frames of game platform images, and determining the attribute information of a same group of money substitutes by target tracking from the attribute information of each group of money substitutes of which the confidence is more than or equal to the confidence threshold; and

determining the attribute information corresponding to a maximum occurrence frequency in an election manner from the attribute information of the same group of money substitutes, and determining a detection result of a target frame of image to be the attribute information corresponding to the maximum occurrence frequency, the target frame of image being any frame of image in the N frames of game platform images.

9. An apparatus for image processing, comprising:

an acquisition module, configured to acquire at least one frame of game platform image;

a first processing module, configured to detect the at least one frame of game platform image to obtain a detection result of each of the at least one frame of game platform image, the detection result at least comprising position information of at least one money substitute; and

a second processing module, configured to, under a condition that the position information of the at least one money substitute meets a preset alerting condition, generate first alert information;

wherein the second processing module is further configured to:

determine a target region where the at least one money substitute is located in according to the position information of the at least one money substitute and predetermined game platform image region division information, the game platform image region division information comprising position information of multiple target regions obtained by performing region division on a game platform; and

determine whether the position information of the at least one money substitute meets the preset alerting condition according to the target region where the at least one money substitute is located in;

wherein the second processing module is specifically configured to:

under a condition of determining that the at least one money substitute is located in at least two predetermined target regions, determine that the position information of the at least one money substitute meets the preset alerting condition, the predetermined target region comprising a region, where the at least one money substitute is allowed to be located in, in the target region.

10. The apparatus of claim 9, wherein the second processing module is further configured to:

determine an area of a part of the at least one money substitute located within each predetermined target region in the game platform according to the position information of the at least one money substitute and the predetermined game platform image region division information, the predetermined target region representing a target region where the at least one money substitute is allowed to be located in; and

in response to the area of the part of the at least one money substitute located within each predetermined target region in the game platform being less than an area threshold, determine that the position information of the at least one money substitute meets the preset

alerting condition.

11. The apparatus of claim 9 or 10, wherein the position information of the at least one money substitute comprises a position of a center point of the at least one money substitute; and

the second processing module is further configured to:

determine a target region where the center point is located in according to the position information of the at least one money substitute and the predetermined game platform image region division information, and

in response to the center point being located in a non-predetermined target region, determine that the position information of the at least one money substitute meets the preset alerting condition, the non-predetermined target region representing a region where the at least one money substitute is not allowed to be located in.

12. The apparatus of claim 9 or 10, wherein the second processing module is specifically configured to:

under a condition that the position information and size information of the at least one money substitute are represented by a detection box for the at least one money substitute, mesh the detection box for the at least one money substitute;

extract multiple feature points of the at least one money substitute from each divided mesh; and

determine the target region where the at least one money substitute is located in according to a target region where each of the multiple feature points extracted from each divided mesh is located in.

13. An electronic device, comprising a processor and a memory configured to store computer programs capable of running in the processor, wherein

the processor is configured to run the computer programs to execute the method for image processing of any one of claims 1-8.

14. A computer storage medium having stored therein computer programs which are executed by a processor to implement the method for image processing of any one of claims 1-8.