

Claims

1. A user identity verification method, comprising:
 - sending a facial quality score threshold and a number of eye-print collection steps corresponding to an identity verification mode to a client to obtain facial images based on the facial quality score threshold and obtain eye-print pair images corresponding to the number of eye-print collection steps;
 - receiving a facial image and one or more eye-print pair images corresponding to an identity verification object from the client, wherein the facial image meets the facial quality score threshold and a number of the one or more eye-print pair images corresponds to the number of eye-print collection steps;
 - comparing the facial image to a preset facial image, and comparing the one or more eye-print pair images to preset eye-print templates corresponding to the identity verification object;
 - and
 - when comparison results for the facial image and the one or more eye-print pair images meet preset conditions, sending successful identity verification information to the client.
2. The method according to claim 1, wherein before sending the facial quality score threshold and the number of eye-print collection steps, the method further comprises:
 - receiving a user identity verification request;
 - obtaining a number of preset eye-print templates corresponding to the identity verification object from a preset storage location, wherein the preset storage location stores eye-print templates corresponding to different identity verification objects; and
 - when the number of eye-print templates corresponding to the identity verification object is no less than a preset threshold, determining a current mode as the identity verification mode.
3. The method according to claim 2, wherein after obtaining the number of eye-print templates corresponding to the identity verification object, the method further comprises:
 - when the number of eye-print templates is less than the preset threshold, determining the current mode as an eye-print enrollment mode;

sending a facial quality score threshold and a number of eye-print collection steps corresponding to the eye-print enrollment mode to the client to obtain facial images based on the facial quality score threshold and obtain eye-print pair images corresponding to the number of eye-print collection steps; and

storing the obtained eye-print pair images in the preset storage location as the eye-print templates corresponding to the identity verification object.

4. The method according to claim 1, wherein comparing the facial image to the preset facial image comprises:

using the facial image and the preset facial image as input to a preset facial algorithm; and

obtaining a facial comparison score corresponding to the identity verification object from the preset facial algorithm.

5. The method according to claim 4, wherein comparing the one or more eye-print pair images to the preset eye-print templates comprises:

using the one or more eye-print pair images and the eye-print templates corresponding to the identity verification object as input to a preset eye-print algorithm; and

obtaining multiple eye-print liveness scores and an eye-print match score from the preset eye-print algorithm, the number of the multiple eye-print liveness scores corresponding to the number of eye-print collection steps.

6. The method according to claim 5, wherein the preset conditions include: the facial comparison score, the multiple eye-print liveness scores, and the eye-print match score are greater than respective preset threshold scores.

7. The method according to claim 4, further comprising: when the comparison results for the facial image and the one or more eye-print pair images meet the preset conditions, updating the eye-print templates corresponding to the identity

verification object.

8. A user identity verification method, comprising:

receiving a facial quality score threshold and a number of eye-print collection steps corresponding to a current mode;

obtaining a facial image and one or more eye-print pair images corresponding to an identity verification object, the facial image being obtained based on the facial quality score threshold and a number of the one or more eye-print pair images corresponding to the number of eye-print collection steps; and

sending the obtained facial image and the one or more eye-print pair images to a server to perform identity verification of the identity verification object.

9. The user identity verification method according to claim 8, wherein sending the obtained facial image to a server comprises:

determining an image quality of the obtained facial image is no less than the facial quality score threshold; and

sending the obtained facial image to the server.

10. The user identity verification method according to claim 8, wherein before sending the obtained one or more eye-print pair images to the server, the method further comprises:

determining the one or more eye-print pair images meet preset eye-print liveness conditions.

11. A non-transitory computer-readable storage medium for user identity verification, storing instructions executable by one or more processors causing the one or more processors to perform operations comprising:

sending a facial quality score threshold and a number of eye-print collection steps corresponding to an identity verification mode to a client to obtain facial images based on the facial quality score threshold and obtain eye-print pair images corresponding to the number of

eye-print collection steps;

receiving a facial image and one or more eye-print pair images corresponding to an identity verification object from the client, wherein the facial image meets the facial quality score threshold and a number of the one or more eye-print pair images corresponds to the number of eye-print collection steps;

comparing the facial image to a preset facial image, and comparing the one or more eye-print pair images to preset eye-print templates; and

when comparison results for the facial image and the one or more eye-print pair images meet preset conditions, sending successful identity verification information to the client.

12. The non-transitory computer-readable storage medium according to claim 11, wherein before sending the facial quality score threshold and the number of eye-print collection steps, the operations further comprise:

receiving a user identity verification request;

obtaining a number of preset eye-print templates corresponding to the identity verification object from a preset storage location, wherein the preset storage location stores eye-print templates corresponding to different identity verification objects; and

when the number of eye-print templates corresponding to the identity verification object is no less than a preset threshold, determining a current mode as the identity verification mode.

13. The non-transitory computer-readable storage medium according to claim 12, wherein after obtaining the number of eye-print templates corresponding to the identity verification object, the operations further comprise:

when the number of eye-print templates corresponding to the identity verification object is less than the preset threshold, determining the current mode as an eye-print enrollment mode;

sending a facial quality score threshold and a number of eye-print collection steps corresponding to the eye-print enrollment mode to the client to obtain facial images based on the facial quality score threshold and obtain eye-print pair images corresponding to the number of eye-print collection steps; and

storing the obtained eye-print pair images in the preset storage location as the eye-print templates corresponding to the identity verification object.

14. The non-transitory computer-readable storage medium according to claim 11, wherein comparing the facial image to the preset facial image comprises:

using the facial image and the preset facial image as input to a preset facial algorithm;
and

obtaining a facial comparison score corresponding to the identity verification object from the preset facial algorithm.

15. The non-transitory computer-readable storage medium according to claim 14, wherein comparing the one or more eye-print pair images to the preset eye-print templates comprises:

using the one or more eye-print pair images and the eye-print templates corresponding to the identity verification object as input to a preset eye-print algorithm; and

obtaining multiple eye-print liveness scores and an eye-print match score from the preset eye-print algorithm, the number of the multiple eye-print liveness scores corresponding to the number of eye-print collection steps.

16. The non-transitory computer-readable storage medium according to claim 15, wherein the preset conditions include:

the facial comparison score, the multiple eye-print liveness scores, and the eye-print match score are greater than respective preset threshold scores.

17. The non-transitory computer-readable storage medium according to claim 14, wherein the operations further comprise:

when the comparison results for the facial image and the one or more eye-print pair images meet the preset conditions, updating the eye-print templates corresponding to the identity verification object.