CLAIMS

1. A~~n~~ computer-implemented image processing method, comprising:

processing, by a terminal device, a first image to obtain a first face in the first image;

determining matching probability information of each of N candidate pairs according to at least one face and at least one human body corresponding to the first image, wherein the candidate pair comprises a face of the at least one face and a human body of the at least one human body, the at least one face comprising the first face;

determining, by the terminal device based on the matching probability information of each of the N candidate pairs, whether the at least one human body corresponding to the first image comprises a human body matching the first face; and

sending, by the terminal device, a first person recognition request message to a server according to a determination result,

wherein determining the matching probability information of each of the N candidate pairs according to the at least one face and the at least one human body comprises:

determining estimated position information and actual position information of a target object based on a second human body in a first candidate pair and a second face in the first candidate pair, wherein the N candidate pairs comprise the first candidate pair and the target object is a part of the human body; and

determining matching probability information of the first candidate pair based on the estimated position information of the target object and the actual position

information of the target object.

2. The computer-implemented method of claim 1, wherein sending, by the terminal device, the first person recognition request message to the server according to the determination result comprises:

responsive to that the at least one human body corresponding to the first image comprises a first human body matching the first face, sending the first person recognition request message comprising image information of the first human body to the server, wherein the image information of the first human body is used by the server for performing person recognition.

3. The computer-implemented method of claim ~~1 or~~ 2, further comprising: responsive to that the at least one human body corresponding to the first image comprises the first human body matching the first face and that ~~the~~ an image quality of the first human body meets a quality requirement, sending the first person recognition request message comprising the image information of the first human body to the server.

4. The computer-implemented method of any one of claims 1-3, wherein the first person recognition request message further comprises Identification (ID) information of the first face.

5. The computer-implemented method of any one of claims 1-4, wherein sending, by the terminal device, ~~that~~ the first person recognition request message to the server according to the determination result comprises: responsive to that the at least one

human body corresponding to the first image does not comprise the human body matching the first face, or responsive to that the at least one human body corresponding to the first image comprises the first human body matching the first face and that ~~the~~ an image quality of the first human body does not meet a quality requirement, sending the first person recognition request message comprising the image information of the first face to the server, wherein the image information of the first face is used by the server for performing person recognition.

6. The computer-implemented method of any one of claims 1-5, wherein determining, by the terminal device based on the matching probability information of each of the N candidate pairs, whether the at least one human body corresponding to the first image comprises the human body matching the first face comprises:

~~determining matching probability information of each of N candidate pairs according to at least one face and at least one human body corresponding to the first image, wherein the candidate pair comprises a face of the at least one face and a human body of the at least one human body, the at least one face comprising the first face;~~

determining a target matching result between the at least one face and the at least one human body according to the matching probability information of each of the N candidate pairs; and

determining, based on the target matching result, whether the at least one human body corresponding to the first image comprises the human body matching the first face.

~~7. The method of claim 6, wherein determining the matching probability information~~

~~of each of the N candidate pairs according to the at least one face and the at least one human body comprises:~~

~~determining estimated position information and actual position information of a target object based on a second human body in a first candidate pair and a second face in the first candidate pair, wherein the N candidate pairs comprise the first candidate pair and the target object is a part of the human body; and~~

~~determining matching probability information of the first candidate pair based on the estimated position information of the target object and the actual position information of the target object.~~

~~8~~7. The computer-implemented method of claim 1 or 6~~ or 7~~, wherein determining the target matching result between the at least one face and the at least one human body according to the matching probability information of each of the N candidate pairs comprises:

determining matching probability information of each of at least one candidate matching result between the at least one face and the at least one human body according to the matching probability information of each of the N candidate pairs, wherein the at least one candidate matching result comprises m of the N candidate pairs, and every two of the m candidate pairs comprise different faces and different human bodies, where $1 \leq m \leq N$; and

determining the target matching result between the at least one face and the at least one human body from among the at least one candidate matching result based on the matching probability information of each of the at least one candidate matching result.

~~9~~8. The computer-implemented method of any one of claims 1-~~8~~7, before determining, by the terminal device, whether the at least one human body corresponding to the first image comprises the human body matching the first face, further comprising:

performing human body tracking on at least part of images in a video sequence to which the first image belongs, to obtain a human body tracking result; and

searching the human body tracking result of the video sequence for human body tracking information of the first image based on a frame number of the first image.

~~10~~9. The computer-implemented method of claim ~~9~~8, further comprising:

responsive to not finding the human body tracking information of the first image in the human body tracking result of the video sequence, performing human body detection on the first image to obtain the at least one human body corresponding to the first image.

~~11. An image processing method, comprising:~~

~~receiving a person recognition request message sent by a first terminal device, the person recognition request message comprising image information of a first human body; and~~

~~determining person Identification (ID) information of a person to which the first human body belongs based on the image information of the first human body.~~

~~12. The method of claim 11, wherein determining the person ID information of the~~

~~person to which the first human body belongs based on the image information of the first human body comprises:~~

~~obtaining image information of a first face included in the first human body based on the image information of the first human body; and~~

~~determining the person ID information of the person to which the first human body belongs based on the image information of the first face and a face template database, wherein at least one face template is stored in the face template database.~~

~~13. The method of claim 11 or 12, wherein the person recognition request message further comprises bounding box ID information or tracking ID information of the first face in the first human body.~~

~~14. The method of any one of claims 11-13, wherein determining the person ID information of the person to which the first human body belongs based on the image information of the first human body comprises:~~

~~determining human body ID information of the first human body based on the image information of the first human body; and~~

~~determining the person ID information of the person to which the first human body belongs based on the human body ID information of the first human body.~~

~~15. The method of claim 14, wherein determining the person ID information of the person to which the first human body belongs based on the human body ID information of the first human body comprises:~~

~~determining whether there is an association relationship matching a human body ID of the first human body in the association database, wherein the association database is configured to store at least one association relationship between human body ID information and person ID information; and~~

~~obtaining the person ID information of the person to which the first human body belongs based on a determination result.~~

~~16. The method of claim 15, wherein obtaining the person ID information of the person to which the first human body belongs based on the determination result comprises:~~

~~responsive to that there is the association relationship matching the human body ID of the first human body in the association database, determining person ID information in the matching association relationship as the person ID information of the person to which the first human body belongs; and/or~~

~~responsive to that there is no association relationship matching the human body ID of the first human body in the association database, determining newly added person ID information as the person ID information of the person to which the first human body belongs.~~

~~17~~10. An image processing apparatus, comprising:

an acquisition module, configured to process a first image to obtain a first face in the first image;

a first determination module, configured to: determine matching probability information of each of N candidate pairs according to at least one face and at least one

human body corresponding to the first image, wherein the candidate pair comprises a face of the at least one face and a human body of the at least one human body, the at least one face comprising the first face, and determine, based on the matching probability information of each of the N candidate pairs, whether the at least one human body corresponding to the first image comprises the human body matching the first face; and

a sending module, configured to send a first person recognition request message to a server according to a determination result,

wherein the first determination module is further configured to:

determine estimated position information and actual position information of a target object based on a second human body in a first candidate pair and a second face in the first candidate pair, wherein the N candidate pairs comprise the first candidate pair and the target object is a part of the human body; and

determine matching probability information of the first candidate pair based on the estimated position information of the target object and the actual position information of the target object.

11. The apparatus of claim 10, wherein the sending module is configured to:

responsive to that the at least one human body corresponding to the first image comprises a first human body matching the first face, send the first person recognition request message comprising image information of the first human body to the server, wherein the image information of the first human body is used by the server for performing person recognition.

12. The apparatus of claim 11, wherein the sending module is configured to: responsive to that the at least one human body corresponding to the first image comprises the first human body matching the first face and that an image quality of the first human body meets a quality requirement, send the first person recognition request message comprising the image information of the first human body to the server.

13. The apparatus of any one of claims 10-12, wherein the first person recognition request message further comprises Identification (ID) information of the first face.

14. The apparatus of any one of claims 10-13, wherein the sending module is further configured to: responsive to that the at least one human body corresponding to the first image does not comprise the human body matching the first face, or responsive to that the at least one human body corresponding to the first image comprises the first human body matching the first face and that an image quality of the first human body does not meet a quality requirement, send the first person recognition request message comprising the image information of the first face to the server, wherein the image information of the first face is used by the server for performing person recognition.

15. The apparatus of any one of claims 10-14, wherein the first determination module is configured to:

determine a target matching result between the at least one face and the at least one human body according to the matching probability information of each of the N candidate pairs; and

determine, based on the target matching result, whether the at least one human

body corresponding to the first image comprises the human body matching the first face.

16. The apparatus of any one of claim 10 or 15, wherein the first determination module is configured to:

determine matching probability information of each of at least one candidate matching result between the at least one face and the at least one human body according to the matching probability information of each of the N candidate pairs, wherein the candidate matching result comprises m of the N candidate pairs, and every two of the m candidate pairs comprise different faces and different human bodies, where $1 \leq m \leq N$; and

determine the target matching result between the at least one face and the at least one human body from among the at least one candidate matching result based on the matching probability information of each of the at least one candidate matching result.

17. The apparatus of any one of claims 10-16, further comprising:

a human body tracking module, configured to perform human body tracking on at least part of images in a video sequence to which the first image belongs to obtain a human body tracking result; and

a tracking information searching module, configured to search the human body tracking result of the video sequence for human body tracking information of the first image based on a frame number of the first image.

18. The apparatus of claim 17, further comprising a human body detection module, configured to: responsive to not finding the human body tracking information of the first image in the human body tracking result of the video sequence, perform human body detection on the first image to obtain the at least one human body corresponding to the first image.

~~18. An image processing apparatus, comprising:~~

~~a receiving module, configured to receive a person recognition request message sent by a first terminal device, the person recognition request message comprising image information of a first human body; and~~

~~a determination module, configured to determine person Identification (ID) information of a person to which the first human body belongs based on the image information of the first human body.~~

19. A terminal device, comprising: a memory, configured to store a program instruction; and a processor, configured to invoke and execute the program instruction in the memory to perform:

processing a first image to obtain a first face in the first image;

determining matching probability information of each of N candidate pairs according to at least one face and at least one human body corresponding to the first image, wherein the candidate pair comprises a face of the at least one face and a human body of the at least one human body, the at least one face comprising the first face;

determining, based on the matching probability information of each of the N candidate pairs, whether the at least one human body corresponding to the first image comprises a human body matching the first face; and

sending a first person recognition request message to a server according to a determination result,

wherein determining the matching probability information of each of the N candidate pairs according to the at least one face and the at least one human body comprises:

determining estimated position information and actual position information of a target object based on a second human body in a first candidate pair and a second face in the first candidate pair, wherein the N candidate pairs comprise the first candidate pair and the target object is a part of the human body; and

determining matching probability information of the first candidate pair based on the estimated position information of the target object and the actual position information of the target object.

20. A readable storage medium having stored thereon a computer program configured to perform the computer-implemented method of any one of claims 1-~~10~~9 ~~or any one of claims 11-16~~.