CLAIMS

1. A device for processing an image, the device comprising:

an image capturing module configured to obtain a first image capturing an external environment;

a memory configured to store data;

a communication interface arranged in data communication with a remote data storage; and

a processor communicatively couplable with the image capturing module, the memory, and the communication interface, and configured to:

detect one or more regions of the first image, wherein the one or more regions include one or more objects of a predetermined type, and

generate a second image corresponding to the first image, by blurring one or more regions of the second image each corresponding to the one or more regions of the first image,

wherein the processor is further configured to store the first image in the memory for a predetermined time, and transmit the second image to the remote data storage via the communication interface~~,~~

wherein where the processor receives a notification that at least one of the one or more regions of the second image does not include an object of the predetermined type from a third party, the processor is configured to check whether the predetermined time has passed,

wherein if the predetermined time has passed, the processor is configured to:

generate information about the at least one of the one or more regions of the second image, and

use the information as a training instance for training the processor, so that when another first image capturing the external environment is obtained, a region of the another first image corresponding to the at least one of the one or more regions of the second image is not blurred.

2. The device according to claim 1, wherein the processor is configured to store the first image in the memory in an encrypted format.

3. The device according to claim 1 or claim 2, wherein where the processor receives a request from a third party to transmit the first image to the remote data storage, the processor is configured to:

check if the third party obtains a predetermined approval, and

transmit the first image to the remote data storage if the third party obtains the predetermined approval.

4. The device according to any one of claims 1 to 3, wherein the processor is configured to:

detect if the device is located within a predetermined geofence, and

control the image capturing module to stop obtaining the first image if the device is detected to be located within the predetermined geofence.

5. The device according to any one of claims 1 to 4, wherein the processor is configured to:

detect a context of the external environment, and

control the image capturing module to stop obtaining the first image if the context of the external environment relates to a predetermined context.

6. The device according to claim 1 or claim 2, ~~wherein where the processor receives a notification that at least one of the one or more regions of the second image does not include an object of the predetermined type from a third party, the processor is configured to check whether the predetermined time has passed.~~wherein the processor is configured to delete or disable the first image from the memory if the predetermined time has passed.

7. The device according to claim 6, wherein if the predetermined time has not passed, the processor is configured to:

check if the third party obtains a predetermined approval,

extract the first image from the memory if the third party obtains the predetermined approval,

generate another second image corresponding to the extracted first image, without blurring a region of the another second image corresponding to the at least one of the one or more regions of the second image, and

transmit the another second image to the remote data storage.

~~8. The device according to claim 6 or claim 7, wherein if the predetermined time has passed, the processor is configured to:~~

~~generate information about the at least one of the one or more regions of the second image, and use the information as a training instance for training the processor, so that when another first image capturing the external environment is obtained, a region of the another first image corresponding to the at least one of the one or more regions of the second image is not blurred.~~

~~98~~. The device according to claim ~~87~~, wherein the information includes at least one of geo-coordinates and 3D coordinates of the at least one of the one or more regions of the second image.

~~109~~. A method for processing an image in a device, the method comprising:

obtaining a first image capturing an external environment;

detecting one or more regions of the first image, wherein the one or more regions include one or more objects of a predetermined type;

generating a second image corresponding to the first image, by blurring one or more regions of the second image each corresponding to the one or more regions of the first image;

storing the first image in a memory of the device for a predetermined time; and

transmitting the second image to a remote data storage via data communication with the remote data storage~~.~~,

where a notification that at least one of the one or more regions of the second image does not include an object of the predetermined type is received from a third party, checking whether the predetermined time has passed,

wherein if the predetermined time has passed,

generating information about the at least one of the one or more regions of the second image; and

using the information as a training instance for training a processor performing the method, so that when another first image capturing the external environment is obtained, a region of the another first image corresponding to the at least one of the one or more regions of the second image is not blurred.

~~11~~10. The method according to claim ~~10~~9, wherein the storing the first image in the memory comprises: storing the first image in the memory in an encrypted format.

~~12~~11. The method according to claim ~~10~~ 9 or claim ~~11~~ 10 further comprising: where a request to transmit the first image to the remote data storage is received from a third party,

checking if the third party obtains a predetermined approval; and

transmitting the first image to the remote data storage if the third party obtains the predetermined approval.

~~13~~12. The method according to any one of claims ~~10~~ 9 to ~~12~~ 11 further comprising:

detecting if the device is located within a predetermined geofence; and

stopping obtaining the first image if the device is detected to be located within the predetermined geofence.

~~14~~13. The method according to any one of claims ~~10~~ 9 to ~~13~~ 12 further comprising:

detecting a context of the external environment; and

stopping obtaining the first image if the context of the external environment relates to a predetermined context.

~~15~~14. The method according to claim ~~10~~ 9 or claim ~~11~~ 10 further comprising: ~~where a notification that at least one of the one or more regions of the second image does not include an object of the predetermined type is received from a third party, checking whether the predetermined time has passed.~~ wherein the processor is configured to delete or disable the first image from the memory if the predetermined time has passed.

~~16~~15. The method according to claim ~~15~~ 14 further comprising: if the predetermined time has not passed,

checking if the third party obtains a predetermined approval;

extracting the first image from the memory if the third party obtains the predetermined approval;

generating another second image corresponding to the extracted first image, without blurring a region of the another second image corresponding to the at least one of the one or more regions of the second image; and

transmitting the another second image to the remote data storage.

~~17. The method according to claim 15 or claim 16 further comprising: if the predetermined time has passed,~~

~~generating information about the at least one of the one or more regions of the second image; and~~

~~using the information as a training instance for training a processor performing the method, so that when another first image capturing the external environment is obtained, a region of the another first image corresponding to the at least one of the one or more regions of the second image is not blurred.~~

~~18~~16. The method according to claim ~~17~~15, wherein the information includes at least one of geo-coordinates and 3D coordinates of the at least one of the one or more regions of the second image.

~~19~~17. A data processing apparatus configured to perform the method of any one of claims ~~10~~ 9 to ~~18~~16.

~~20~~18. A computer-readable medium comprising program instructions, which, when executed by one or more processors, cause the one or more processors to perform the method of any one of claims ~~10~~ 9 to ~~18~~16.