CLAIMS

1. A computer-implemented method for controlling display of a screen of a mobile terminal comprising:

detecting, by the mobile terminal, a beam, wherein the beam is emitted by a recognition apparatus for scanning a code displayed on the screen;

determining whether the beam is in an inclined state, wherein the inclined state indicates that the beam has an inclination angle that is greater than a first threshold in a predetermined direction, and wherein the predetermined direction is determined based on a display direction of an interface content on the screen of the mobile terminal, wherein the interface content is an image of the code suitable for being scanned and recognized by the recognition apparatus; and

in response to determining that the beam is in the inclined state, adjusting the display direction of the interface content on the screen of the mobile terminal based on the inclined state of the beam.

2. The computer-implemented method of claim 1, wherein adjusting the display direction comprises:

obtaining the inclination angle of the beam and a corresponding inclination direction based on the inclined state of the beam; and

adjusting the display direction of the interface content on the screen of the mobile terminal based on the inclination angle and the corresponding inclination direction.

3. The computer-implemented method of claim 2, wherein adjusting the display direction comprises:

determining a rotation angle of the interface content and a rotation direction based on the inclination angle and the corresponding inclination direction; and

rotating the interface content by the rotation angle in the rotation direction.

4. The computer-implemented method of claim 3, further comprising:

determining whether the inclination angle comprises a plurality of inclination angles.

5. The computer-implemented method of claim 4, wherein in response to determining that the inclination angle comprises the plurality of inclination angles, determining the rotation angle comprises:

selecting, from the plurality of inclination angles, a first inclination angle that does not exceed a second threshold;

determining the first inclination angle as the rotation angle; and

determining that an inclination direction corresponding to the first inclination angle is the rotation direction.

6. The computer-implemented method of claim 1, wherein the predetermined direction comprises an upward direction, a downward direction, a leftward direction, a rightward direction, a left-upward direction, a left-downward direction, a right-upward direction, or a right-downward direction.

7. The computer-implemented method of claim 1, wherein the mobile terminal comprises a sensor configured to detect the beam.

8. The computer-implemented method of claim 7, wherein the sensor comprises an active-pixel sensor.

9. The computer-implemented method of claim 8, wherein the active-pixel sensor comprises a charge-coupled device image sensor or a complementary metal-oxide semiconductor image sensor.

10. The computer-implemented method of claim 1, wherein the beam comprises a laser beam, an infrared beam, or a visible beam.

11. A mobile terminal, the mobile terminal comprising a screen, at least one processor, and a non-transitory computer readable medium storing one or more instructions executable by the at least one processor to perform operations comprising:

detecting a beam, wherein the beam is emitted by a recognition apparatus for scanning a code displayed on the screen;

determining whether the beam is in an inclined state, wherein the inclined state indicates that the beam has an inclination angle that is greater than a first threshold in a predetermined direction, and wherein the predetermined direction is determined based on a display direction of an interface content on the screen of the mobile terminal, wherein the interface content is an image of the code suitable for being scanned and recognized by the recognition apparatus; and

in response to determining that the beam is in the inclined state, adjusting the display direction of the interface content on the screen of the mobile terminal based on the inclined state of the beam.

12. The mobile terminal of claim 11, wherein adjusting the display direction comprises:

obtaining the inclination angle of the beam and a corresponding inclination direction based on the inclined state of the beam; and

adjusting the display direction of the interface content on the screen of the mobile terminal based on the inclination angle and the corresponding inclination direction.

13. The mobile terminal of claim 12, wherein adjusting the display direction comprises:

determining a rotation angle of the interface content and a rotation direction based on the

inclination angle and the corresponding inclination direction; and

rotating the interface content by the rotation angle in the rotation direction.

14. The mobile terminal of claim 13, further comprising:

determining whether the inclination angle comprises a plurality of inclination angles.

15. The mobile terminal of claim 14, wherein in response to determining that the inclination angle comprises the plurality of inclination angles, determining the rotation angle comprises:

selecting, from the plurality of inclination angles, a first inclination angle that does not exceed a second threshold;

determining the first inclination angle as the rotation angle; and

determining that an inclination direction corresponding to the first inclination angle is the rotation direction.

16. The mobile terminal of claim 11, wherein the predetermined direction comprises an upward direction, a downward direction, a leftward direction, a rightward direction, a left-upward direction, a left-downward direction, a right-upward direction, or a right-downward direction.

17. The mobile terminal of claim 11, wherein the mobile terminal comprises a sensor configured to detect the beam, wherein the sensor comprises an active-pixel sensor.

18. The mobile terminal of claim 17, wherein the active-pixel sensor comprises a charge-coupled device image sensor or a complementary metal-oxide semiconductor image sensor.

19. The mobile terminal of claim 11, wherein the beam comprises a laser beam, an infrared beam, or a visible beam.

20. A computer-implemented system, comprising:

one or more computers; and

one or more computer memory devices interoperably coupled with the one or more computers and having tangible, non-transitory, machine-readable media storing one or more instructions that, when executed by the one or more computers, perform one or more operations comprising:

detecting, by a mobile terminal, a beam, wherein the beam is emitted by a recognition apparatus for scanning a code displayed on a screen;

determining whether the beam is in an inclined state, wherein the inclined state indicates that the beam has an inclination angle that is greater than a first threshold in a predetermined direction, and wherein the predetermined direction is determined based on a display direction of an interface content on the screen of the mobile terminal, wherein the interface content is an

image of the code suitable for being scanned and recognized by the recognition apparatus; and

in response to determining that the beam is in the inclined state, adjusting the display direction of the interface content on the screen of the mobile terminal based on the inclined state of the beam.