[0005] In some situations, a user may desire to use a mobile communication device in a public space, but also to maintain a degree of privacy with respect to the content being displayed on the device. When the user is aware of the presence of another person that may be attempting to view the display of the device, the user may be able to hide the display from that person's view. However, a possibility that a user may be unaware of the presence of another person that is attempting to view the display of the device presents a problem to be resolved.

[0006] Accordingly, there is a need for a method and system for protecting user privacy when using a mobile device.

SUMMARY

[0007] The present disclosure, through one or more of its various aspects, embodiments, and/or specific features or sub-components, provides, inter alia, various systems, servers, devices, methods, media, programs, and platforms for protecting user privacy when using a mobile device.

[0008] According to a first aspect of the present disclosure, a method for protecting user privacy on a mobile communication device is provided. The method is implemented by a processor of the mobile communication device. The method includes performing, by the processor, a facial recognition of a first person in order to authenticate the first person for a normal operation of the mobile communication device; displaying, on a screen of the mobile communication device, first content that corresponds to the normal operation of the mobile communication device by the authenticated first person; detecting, by the processor, a presence of a face of a second person that is different from the authenticated first person; and displaying, on the screen, second content that corresponds to a predetermined safety screen, such that the first content is hidden from being displayed. The predetermined safety screen includes a textual message that indicates that the screen content is currently blocked for security, the textual message including the words "blocked" and "security".

[0009] The method may further include: detecting, by the processor, that the face of the second person is no longer present; and displaying, on the screen, the first content.

[0010] The predetermined safety screen may be a blank screen.

[0011] The predetermined safety screen may include a textual message that indicates that the screen content is being hidden for a security purpose.

[0012] The predetermined safety screen may include a user-selectable pictorial image.

[0013] According to a second aspect of the present disclosure, a method for protecting user privacy on a mobile communication device is provided. The method is implemented by a processor of the mobile communication device. The method includes: performing, by the processor, a facial recognition of a first person in order to authenticate the first person for normal operation of the mobile communication device; displaying, on a screen of the mobile communication device, first content that corresponds to the normal operation of the mobile communication device by the authenticated first person; detecting, by the processor, that the authenticated first person is not currently viewing the display screen; and displaying, on the screen, second content that corresponds to a predetermined safety screen, such that the first content is hidden from being displayed. The predetermined safety screen includes a textual message that indicates that the screen content is currently blocked for security, the textual message including the words “blocked” and “security”.

[0014] The method may further include: detecting, by the processor, that the eyes of the authenticated first person are no longer averted from the screen of the mobile communication device; and displaying, on the screen, the first content.

[0015] The predetermined safety screen may be a blank screen.

[0016] Alternatively, the predetermined safety screen may include a textual message that indicates that the screen content is being hidden for a security purpose.

[0017] As another alternative, the predetermined safety screen may include a user-selectable pictorial image.

[0018] According to a third aspect of the present disclosure, a mobile communication device is provided. The mobile communication device includes a processor and a display screen. The processor is configured to: perform a facial recognition of a first person in order to authenticate the first person for a normal operation of the mobile communication device; display, on the display screen, first content that corresponds to the normal operation of the mobile communication device

by the authenticated first person; detect a presence of a face of a second person that is different from the authenticated first person; and display, on the display screen, second content that corresponds to a predetermined safety screen, such that the first content is hidden from being displayed. The predetermined safety screen includes a textual message that indicates that the screen content is currently blocked for security, the textual message including the words “blocked” and “security”.

[0019] The processor may be further configured to detect that the face of the second person is no longer present; and display, on the screen, the first content.

[0020] The predetermined safety screen may be a blank screen.

[0021] Alternatively, the predetermined safety screen may include a textual message that indicates that the screen content is being hidden for a security purpose.

[0022] As another alternative, the predetermined safety screen may include a user-selectable pictorial image.

[0023] According to a fourth aspect of the present disclosure, a mobile communication device is provided. The mobile communication device includes a processor and a display screen. The processor is configured to: perform a facial recognition of a first person in order to authenticate the first person for a normal operation of the mobile communication device; display, on the display screen, first content that corresponds to the normal operation of the mobile communication device by the authenticated first person; detect that the authenticated first person is not currently viewing the display screen; and display, on the display screen, second content that corresponds to a predetermined safety screen, such that the first content is hidden from being displayed. The predetermined safety screen includes a textual message that indicates that the screen content is currently blocked for security, the textual message including the words “blocked” and “security”.

[0024] The processor may be further configured to: detect that the eyes of the authenticated first person are no longer averted from the screen of the mobile communication device; and display, on the screen, the first content.

[0025] The predetermined safety screen may be a blank screen.

[0026] Alternatively, the predetermined safety screen may include a textual message that indicates that the screen content is being hidden for a security purpose.

WHAT IS CLAIMED IS:

1. A method for protecting user privacy on a mobile communication device, comprising:

performing, by a processor of the mobile communication device, a facial recognition of a first person in order to authenticate the first person for a normal operation of the mobile communication device;

displaying, on a screen of the mobile communication device, first content that corresponds to the normal operation of the mobile communication device by the authenticated first person;

detecting, by the processor, a presence of a face of a second person that is different from the authenticated first person; and

displaying, on the screen, second content that corresponds to a predetermined safety screen, such that the first content is hidden from being displayed,

wherein the predetermined safety screen includes a textual message that indicates that the screen content is currently blocked for security, the textual message including the words “blocked” and “security”.

2. The method of claim 1, further comprising:

detecting, by the processor, that the face of the second person is no longer present; and

displaying, on the screen, the first content.

3. A method for protecting user privacy on a mobile communication device, comprising:

performing, by a processor of the mobile communication device, a facial recognition of a first person in order to authenticate the first person for normal operation of the mobile communication device;

displaying, on a screen of the mobile communication device, first content that corresponds to the normal operation of the mobile communication device by the authenticated first person;

detecting, by the processor, that the authenticated first person is not currently viewing the display screen; and

displaying, on the screen, second content that corresponds to a predetermined safety screen, such that the first content is hidden from being displayed,

wherein the predetermined safety screen includes a textual message that indicates that the screen content is currently blocked for security, the textual message including the words “blocked” and “security”.

4. The method of claim 3, further comprising:

detecting, by the processor, that the eyes of the authenticated first person are no longer averted from the screen of the mobile communication device; and

displaying, on the screen, the first content.

5. A mobile communication device, comprising:

a processor; and

a display screen,

wherein the processor is configured to:

perform a facial recognition of a first person in order to authenticate the first person for a normal operation of the mobile communication device;

display, on the display screen, first content that corresponds to the normal operation of the mobile communication device by the authenticated first person;

detect a presence of a face of a second person that is different from the authenticated first person; and

display, on the display screen, second content that corresponds to a predetermined safety screen, such that the first content is hidden from being displayed,

wherein the predetermined safety screen includes a textual message that indicates that the screen content is currently blocked for security, the textual message including the words “blocked” and “security”.

6. The mobile communication device of claim 5, wherein the processor is further configured to:

detect that the face of the second person is no longer present; and

display, on the screen, the first content.

7. A mobile communication device, comprising:

a processor; and

a display screen,

wherein the processor is configured to:

perform a facial recognition of a first person in order to authenticate the first person for a normal operation of the mobile communication device;

display, on the display screen, first content that corresponds to the normal operation of the mobile communication device by the authenticated first person;

detect that the authenticated first person is not currently viewing the display screen; and

display, on the display screen, second content that corresponds to a predetermined safety screen, such that the first content is hidden from being displayed,

wherein the predetermined safety screen includes a textual message that indicates that the screen content is currently blocked for security, the textual message including the words “blocked” and “security”.

8. The mobile communication device of claim 7, wherein the processor is further configured to:

detect that the eyes of the authenticated first person are no longer averted from the screen of the mobile communication device; and

display, on the screen, the first content.