

Claims

1. An information input method, comprising:

acquiring pre-stored information, the pre-stored information comprising plaintext first information or encrypted first information, the first information comprising set information and associated information generated according to the set information, wherein generating the associated information comprises:

randomly selecting an information item from the set information;

acquiring a new information item corresponding to the selected information item, wherein a distance between positions of the new information item and the selected information item on a keyboard is within a preset range; and

replacing the selected information item in the set information with the new information item to obtain the associated information;

receiving to-be-verified information;

verifying the to-be-verified information according to the pre-stored information; and

receiving to-be-verified information that is re-input if the to-be-verified information belongs to the associated information.

2. The information input method of claim 1, further comprising:

displaying prompt information to a user before receiving the to-be-verified information that is re-input, the prompt information being used for prompting the user to pay attention to keyboard keys; or

prolonging a plaintext displaying time of the to-be-verified information that is re-input after receiving the to-be-verified information that is re-input; or

directly displaying the to-be-verified information that is re-input in plaintext after receiving the to-be-verified information that is re-input.

3. The information input method of claim 2, further comprising verifying the to-be-verified information again (142).

4. The information input method of claim 1, wherein when the pre-stored information is the encrypted first information, the step of verifying the to-be-verified information according to the pre-stored information comprises:

encrypting the to-be-verified information by using the same encryption algorithm as that of the

first information to obtain encrypted to-be-verified information; and
comparing the encrypted to-be-verified information with the pre-stored information.

5. The information input method of claim 4, wherein the encryption algorithm is a Hash algorithm.

6. The information input method of any of claims 1 to 5, wherein after the step of verifying the to-be-verified information according to the pre-stored information, the method further comprises:

determining that the verification succeeds if the to-be-verified information is the same as the set information; or

determining that the verification fails if the to-be-verified information is different from the set information and does not belong to the associated information.

7. An information input apparatus, comprising:

an acquisition module configured to acquire pre-stored information, the pre-stored information comprising plaintext first information or encrypted first information, the first information comprising set information and associated information generated according to the set information, wherein generating the associated information comprises:

randomly selecting, by a setting module, an information item from the set information;

acquiring, by the setting module, a new information item corresponding to the selected information item, wherein a distance between positions of the new information item and the selected information item on a keyboard is within a preset range; and

replacing, by the setting module, the selected information item in the set information with the new information item to obtain the associated information;

a first receiving module configured to receive to-be-verified information;

a verification module configured to verify the to-be-verified information according to the pre-stored information; and

a second receiving module configured to receive to-be-verified information that is re-input if the to-be-verified information belongs to the associated information.

8. The information input apparatus of claim 7, wherein the second receiving module is further configured to:

display prompt information to a user before the to-be-verified information that is re-input is

received, the prompt information being used for prompting the user to pay attention to keyboard keys; or

prolong a plaintext displaying time of the to-be-verified information that is re-input after the to-be-verified information that is re-input is received; or

directly display the to-be-verified information that is re-input in plaintext after the to-be-verified information that is re-input is received.

9. The information input apparatus of claim 8, wherein the second receiving module is further configured to verify the to-be-verified information again.

10. The information input apparatus of claim 7, wherein when the pre-stored information is the encrypted first information, the verification module is specifically configured to:

encrypt the to-be-verified information by using the same encryption algorithm as that of the first information to obtain encrypted to-be-verified information; and

compare the encrypted to-be-verified information with the pre-stored information.

11. The information input apparatus of any of claims 7 to 10, further comprising:

a determination module configured to determine that the verification succeeds if the to-be-verified information is the same as the set information; or determine that the verification fails if the to-be-verified information is different from the set information and does not belong to the associated information.