CLAIMS

1. A computer-implemented method for verification based on a verification code, the computer-implemented method comprising:

receiving a verification request;

retrieving a first character string after receiving the verification request, wherein the first character string comprises one or more variable characters, wherein the first character string is a first instruction to perform one or more operations;

generating a second character string by replacing at least one of the one or more variable characters with at least one backup character based on a pre-established correspondence between a variable character and a backup character, wherein a replaced variable character of the at least one of the one or more variable characters in the first character string and a corresponding backup character of the at least one backup character are homophonous characters or synonymous characters, and the second character string is a second instruction to perform the one or more operations;

generating a verification code based on the second character string;

displaying the verification code and an input area corresponding to the verification code, wherein the input area includes a plurality of selectable items, and the verification code instructs a user to select one or more selectable items from the plurality of selectable items;

receiving a user input corresponding to the verification code in the input area; and

verifying the user corresponding to the verification request based on the user input.

2. The computer-implemented method of claim 1, further comprising:

pre-establishing a correspondence between the variable character and the backup character,

wherein pre-establishing the correspondence between the variable character and the backup character comprises:

determining at least one of a homophonous character and a synonymous character of any variable character;

using the at least one of the homophonous character and the synonymous character as a backup character of the variable character; and

establishing the correspondence between the backup character and the variable character.

3. The computer-implemented method of claim 2, wherein generating the verification code based on the second character string comprises:

generating the verification code in a specified format based on the second character string.

4. The computer-implemented method of claim 3, wherein the specified format comprises at least one of a picture format and a text format.

5. The computer-implemented method of claim 1, wherein the variable character and the backup character correspond to same types of characters.

6. The computer-implemented method of claim 1, wherein the variable character is a Chinese character, and the corresponding backup character is a homophonous character or a synonymous character of the Chinese character.

7. The computer-implemented method of claim 1, wherein the first character string is pre-generated before receiving the verification request. .

8. A non-transitory, computer-readable medium storing one or more instructions executable by a computer system to perform the method of any one of claims 1 to 7.

9. 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 the method of any one of claims 1 to 7.

10. An apparatus for verification based on a verification code, the apparatus comprising a plurality of modules configured to perform the method of any one of claims 1 to 7.