What is claimed is:

1. A synthesis method of Chinese printed character images, comprising:

performing at least one transformation on a standard character image to respectively generate at least one extended character image;

and respectively merging the at least one extended character image with a background template to generate at least one synthesized character image.

2. The method according to claim 1, further comprising:

generating a character according to a preset character requirement;

performing a binarization process on the character to generate a standard character;

and saving the standard character as the standard character image.

3. The method according to claim 1, further comprising:

segmenting and extracting a character in an image character;

performing a binarization process and a first scaling transformation on the character to generate a standard character;

and saving the standard character as the standard character image.

4. The method according to any one of claims 1 to 3, further comprising:

receiving a background image input by a user;

and generating the background template according to the background image.

5. The method according to claim 4, wherein the generating the background template according to the background image comprises:

performing a first proportional scaling transformation on the background image to generate the background template.

6. The method according to claim 5, wherein a scaling ratio of the first proportional scaling transformation is determined by a ratio of resolution of the standard character image to character resolution of the background image.

7. The method according to claim 1, wherein the at least one transformation comprises at least one of a fuzzy processing transformation, an affine transformation, a local shearing transformation and a perspective transformation.

8. The method according to claim 7, wherein the local shearing transformation comprises:

selecting a second region along a horizontal or vertical direction on the standard character image to be subjected to the local shearing transformation, and compressing the second region by keeping a height or a width of the second region unchanged to form a third region;

and replacing a corresponding region of the second region in the standard character image with the third region.

9. The method according to any one of claims 1 to 8, wherein the respectively merging the at least one extended character image with a background template comprises:

according to a size of the extended character image, extracting a background template region with a corresponding size in the background template;

and performing a weighted merging process on the background template region and the at least one extended character image.

10. The method according to claim 9, wherein a weighting coefficient of the weighted merging process is determined by an average grayscale value of the background template region, and the average grayscale value is negatively correlated with the weighting coefficient.

11. A synthesis device of Chinese printed character images, comprising: an extended transformation module, configured to perform at least one transformation on a standard character image to respectively generate at least one extended character image;

and a merging module, configured to respectively merge the at least one extended character image with a background template to generate at least one synthesized character image.

12. The device according to claim 11, further comprising:

a character preprocessing module, configured to generate a character according to a preset character requirement, perform a binarization process on the character to generate a standard character, and save the standard character as the standard character image.

13. The device according to claim 11, further comprising:

a character preprocessing module, configured to segment and extract a character in the image character, perform a binarization process and a first scaling transformation on the character to generate a standard character, and save the standard character as the standard character image.

14. The device according to any one of claims 11 to 13, further comprising:

a background preprocessing module, configured to receive a background image input by a user, and generate the background template according to the background image.

15. The device according to claim 14, wherein the background preprocessing module performs a first proportional scaling transformation on the background image to generate the background template.

16. The device according to claim 15, wherein a scaling ratio of the first proportional scaling transformation is determined by a ratio of resolution of the standard character image to character resolution of the background image.

17. The device according to claim 11, wherein the at least one transformation comprises at least one of a fuzzy processing transformation, an affine transformation, a local shearing transformation and a perspective transformation.

18. The device according to any one of claims 11 to 17, wherein the merging module, according to a size of the extended character image, extracts a background template region with a corresponding size in the background template, and performs a weighted merging process on the background template region and the at least one extended character image.

19. The device according to claim 18, wherein a weighting coefficient of the weighted merging process is determined by an average grayscale value of the background template region, and the average grayscale value is negatively correlated with the weighting coefficient.

20. A computer readable storage medium on which a computer program is stored, wherein when the computer program is executed by a processor, the processor implements the synthesis method of Chinese printed character images according to any one of claims 1 to 10.