



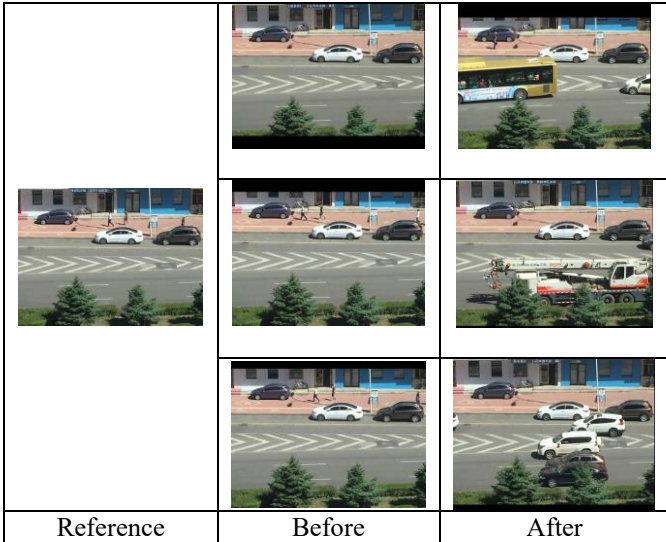






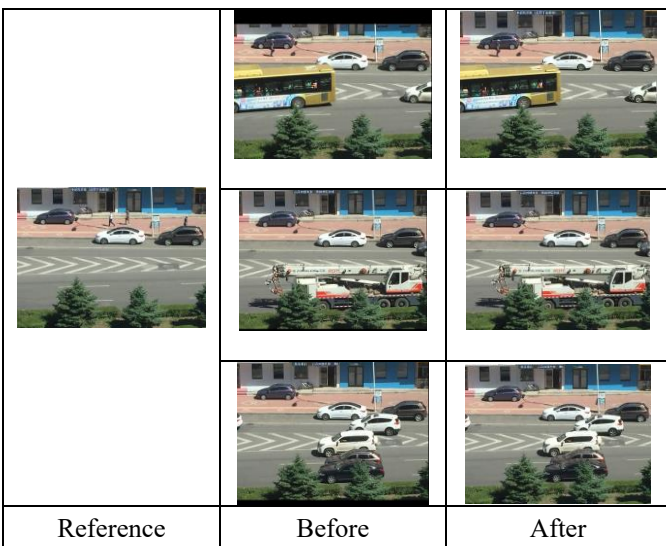
with iPhone6 camera. The panoramic image mosaic algorithm used was the one mentioned in reference [11] and the electronic image stabilisation algorithm used was the grey projection image stabilisation algorithm. The experimental environment was the MATLAB7 simulation platform under Windows7.

First, the grey projection image stabilisation algorithm is used to obtain a stabilised image sequence 1, as shown in Figure 3.



**Figure 3.** Image sequence before and after GPA processing

Then, the stabilised image in the image sequence 1 is paired with the reference-frame image to form a complete image, and the image sequence 2 is output, as shown in Figure 4.



**Figure 4.** Image sequence after panoramic image mosaic process

## 6. CONCLUSIONS

There are many researches on the electronic image stabilisation algorithm based on grey projection. However, no one has proposed or studied how to address the missing image information to improve the processing effect. In light

of this, according to the TRIZ theory for problem analysis, this paper studies a method combining PIM and GPA and finds that the missing part of the GPA-processed image can be supplemented by PIM. Experiments show that this method is effective and feasible.

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