FastChi – The Parallelized Fast Style Transfer toward Chi-chi video

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1. **Abstract**

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1. **Introduction**

The style transfer is a very popular problem in recent year. Moreover, there’re some applications which use such kind of transferring into their product. Prisma is an interesting example. The function of the application can do the style transferring toward any input image given by user with different style. By the effect of the application, it can let us to experience the daily life with different mood.

However, the speed and performance are important issues that should be conquered. In Prisma, the smart phone should spend amount of time to transfer the image. Moreover, the same shortage can be seen in the situation to transfer the style toward the whole film. Rather than dealing with single image, the program should spend more time to complete the task for the video.

In order to accelerate the style transferring procedure, we purpose the parallel structure toward this task, and speed up the procedure of transforming. The network will split the video as two parts, and use two GPU to transform the style to the content image in parallelism. For our expectation, the video which contains chi-chi (shiba-lnu dog) will be transferred in very quick speed. Moreover, the changing can make user be more pleasure and enjoy the daily life.

1. **Proposed Solution**
2. **Experimental Methodology**
3. **Experimental Result**
4. **Related Works**
5. **Conclusions**
6. **References**