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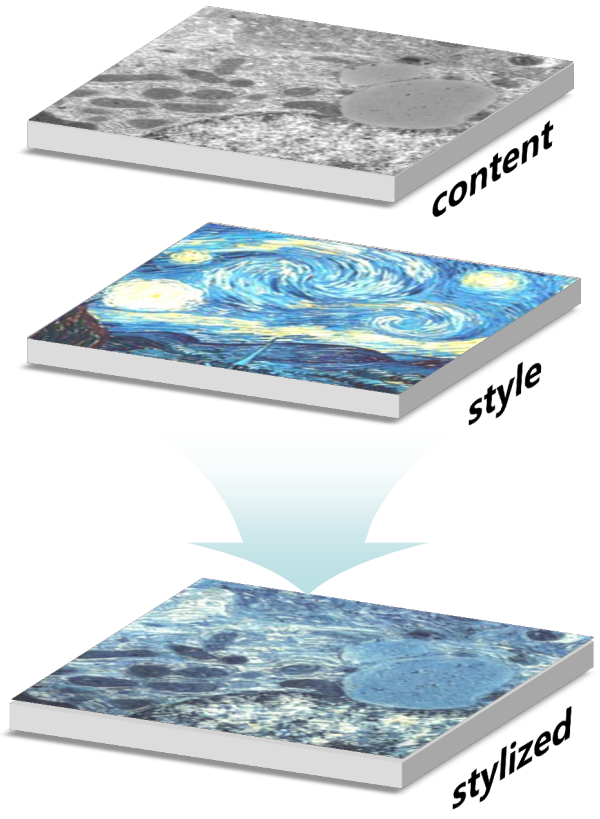
Seeing the macro in the micro: a diffusion model-based approach for style transfer in cellular images

Key words: Cellular images; Style transfer; Diffusion model; Artistic expression

Research Summary

This study proposed a novel diffusion model-based style transfer method for cellular images, combining scientific accuracy with artistic expression. The key contributions and applications are summarized as follows:

- **Training-free Style Transfer Method**
- **Integration of Science and Art**
- **Advanced Techniques for Fine Control**
- **Applications and Artistic Effects**



Innovation points

- **Development** of a training-free diffusion model-based style transfer method for cellular images.

- **Integration** of scientific rigor and artistic expression, ensuring preservation of cellular structures while embedding diverse artistic styles.

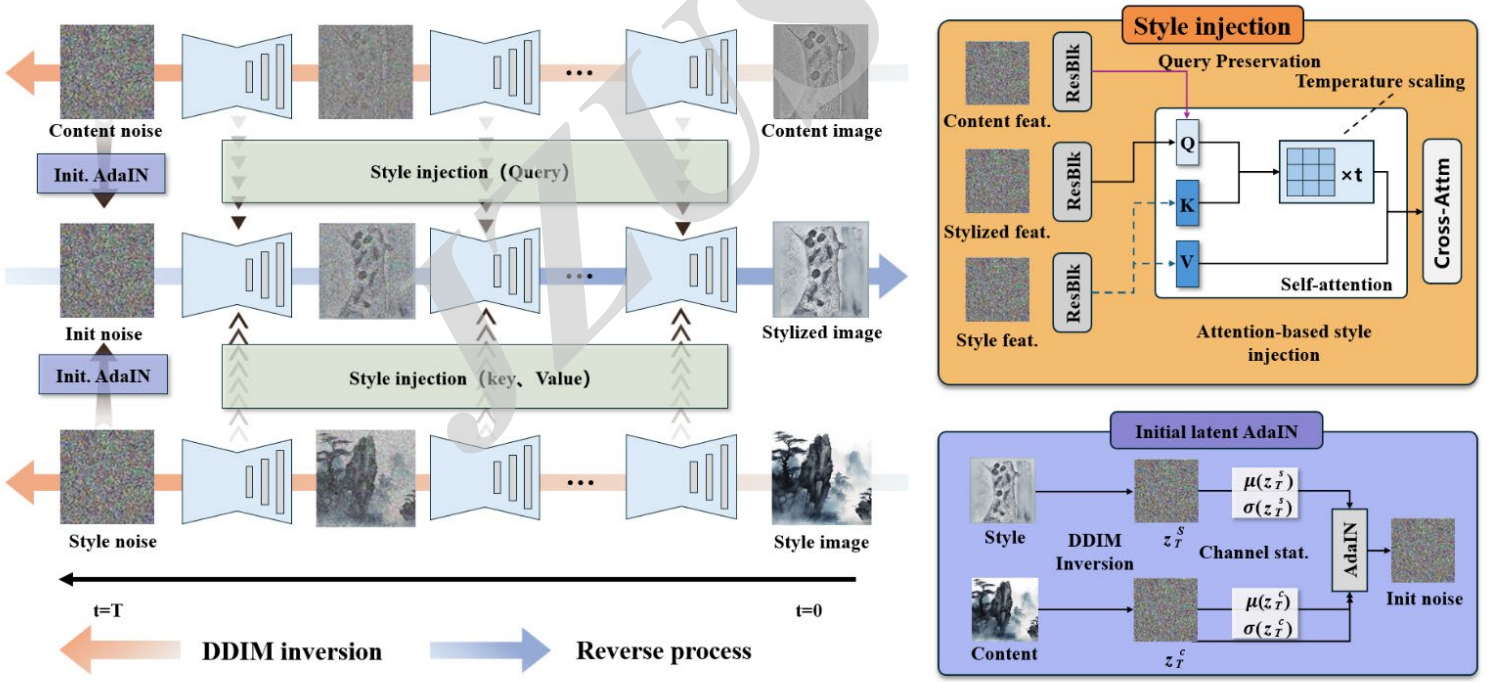
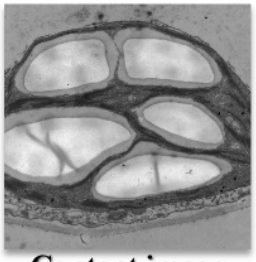


Figure 1

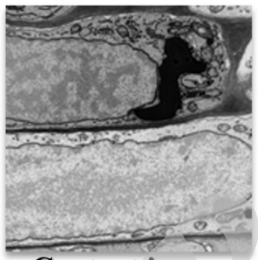
Artistic Expression and 'Storytelling' of Cellular Images



Content image

style image

Stylized image



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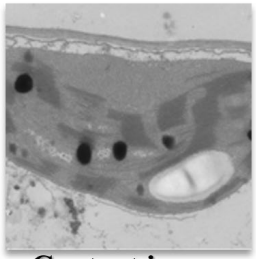

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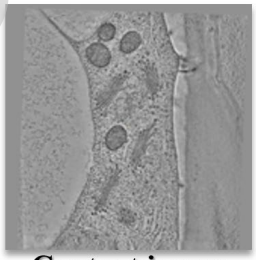

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