

Extensive Questions for Lecture 3 (Style Transfer)

Please answer the following questions and submit your report in digital form by one week, through emailing to po.chun.huang@mail.ntut.edu.tw with email title "[EMBA2022][HW2]" followed by your name. If you have finished the coding assignments earlier than expected, please do the report in class.

1. What makes a good image for artistic style extraction and fusion? Are real photos good candidates for style extraction and fusion? Please discuss.
2. List at least three artistic styles in paintings and how you can extract them (with what tricks, such as what image filters) prior to applying AI-based approaches?
3. There are different types of artworks other than painting, such as sculpture, music, video, and even interactive artworks. Can you extend/revise our proposals to perform style extraction and transfer for any of those types of artworks?
4. In the long history of arts, artists strived to create their own unique styles. Mimicking others' styles are often considered a bad act. However, sometimes combining existing styles might help create new ones. With what digital tools would you suggest that artists can protect their own styles or is such protection totally useless?