Abstract

Nowadays, face morphing is used in various fields of works such as computer animations, games and movies. Face morphing is an effect that shows a transition from one face image to another face image smoothly. Research on face morphing is as vast as the many interests and needs that can be found in the general public, television or film production. In this paper, we thus review the different morphing techniques that can be used to generate and manipulate faces. Due to the advantages in applying face morphing in various kinds of work, there are several works on face morphing and we can categorize them into three groups, based on their
corresponding fields of works as Face Transfer, Facial Animation and Enhancement of Facial Attractiveness.

References

- D. Bitouk, N. Kumar, S. Dhillion, P. Belhumeur and S. K. Nayar, "Face Swapping: Automatically Replacing Faces in Photographs?, In SIGGRAPH 08 Papers, Pages 1-8, New York, USA.
- Y. Liang, "Image Based Face Replacement in Video?, Master's Thesis, CSEI Department, National Taiwan University, 2009.
- A. Niswar, E. P. Ong and Z. Huang, "Face Replacement in Video from a Single Image?, In SIGGRAPH Asia 2012 Posters, ACM.
- Thierry Lauthelier and Marc Neveu, "Facial animation by reverse morphing on a sequence of real images", ANN TELECOMMUN. , 55, 2000
- F. Yang, J. Wang, E. Shechtman, L. Bourdev, and D. Metaxas, "Expression flow for


**Index Terms**

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