

CAP5404 Deep Learning for Computer Graphics: Reading List

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- [10] P. Li, K. Aberman, R. Hanocka, L. Liu, O. Sorkine-Hornung, and B. Chen, "Learning skeletal articulations with neural blend shapes," *ACM Trans. Graph.*, vol. 40, no. 4, p. Article 130, 2021, doi: 10.1145/3450626.3459852.
- [11] G. Song *et al.*, "AgileGAN: stylizing portraits by inversion-consistent transfer learning," *ACM Trans. Graph.*, vol. 40, no. 4, p. Article 117, 2021, doi: 10.1145/3450626.3459771.
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- [13] R. Pandey *et al.*, "Total relighting: learning to relight portraits for background replacement," *ACM Trans. Graph.*, vol. 40, no. 4, p. Article 43, 2021, doi: 10.1145/3450626.3459872.

Additional Reading (Optional)

Generating videos with scene dynamics

Carl Vondrick, Hamed Pirsiavash, Antonio Torralba

Publication: NIPS'16: Proceedings of the 30th International Conference on Neural Information Processing Systems December 2016 Pages 613–621, GAN Video: <http://www.cs.columbia.edu/~vondrick/tinyvideo/>

Deep Relightable Appearance Models for Animatable Faces Paper Abstract Author Preprint Paper Video

Sai Bi (University of California, San Diego), Stephen Lombardi*, Shunsuke Saito* (Facebook Reality Labs), Tomas Simon, Shih-En Wei, Kevyn McPhail (Facebook Reality Labs), Ravi Ramamoorthi (University of California, San Diego), Yaser Sheikh, & Jason Saragih (Facebook Reality Labs) * Both authors contributed equally to this work

SP-GAN: Sphere-Guided 3D Shape Generation and Manipulation Paper Abstract Author Preprint Paper Video Demo Program or Source Code
Ruihui Li, Xianzhi Li, Ka-Hei Hui, Chi-Wing Fu (The Chinese University of Hong Kong) 2021

SWAGAN: A Style-based WAvelet-driven Generative Model Paper Abstract Author Preprint
Rinon Gal, Dana Cohen, Amit Bermano, Daniel Cohen-Or (Tel Aviv University) 2021

T Portenier, M Zwicker - 2019
Deep Learning-based Image Synthesis using Sketching and Example-based Techniques

Tiziano Portenier, Qiyang Hu, Attila Szabó, Siavash Arjomand Bigdeli, Paolo Favaro, and Matthias Zwicker. 2018. Faceshop: deep sketch-based face image editing. ACM Trans. Graph. 37, 4, Article 99 (August 2018), 13 pages. DOI:<https://doi.org/10.1145/3197517.3201393>