Evaluation of Image Completion Algorithms: Deep Convolutional Generative adversarial Nets vs. Exemplar-Based Inpainting Koki Yoshida, Chanduo Huang

Department of Computer Science, Stanford University

Motivation

- different inpainting algorithms are rarely highlighted
- based inpainting



| | Src Images | Quality | Runtime | Α |
|--|---------------------------|---|---|--------------|
| EBI | Works on unseen images | Depends on content and mask | Faster. Quality independent of time | (S |
| DCGAN | Limited to trained genres | Stable. Generally good and smooth | Slower. Quality improves with time | C f r€ |
| 1. "Object/Defect Removal via Single-image Super-resolution on NLM-priority-based Inpainting and Sparse Coding | | | | |

Refs:

"Image Completion with Deep Learning in Tensorflow" by Amos, Bamos "Unsupervised Representation Learning with Deep Convolutional Generative Adversarial Networks" by Radford et al.