CS 523: Multimedia Systems

Angus Forbes

creativectcoding.evl.uic.edu/courses/cs523
Today

- Present coding project

- Meet in groups to solidify Project 3

- Choose papers to read for next week
Face-to-BMI, Kocabey et al. 2017
https://arxiv.org/abs/1703.03156
http://face2bmi.csail.mit.edu/
Deep Warp, Ganin et al. 2017
http://sites.skoltech.ru/compvision/projects/deepwarp/
http://163.172.78.19/ (demo)
Deep Sketch Hashing, Liu et al. 2017
https://arxiv.org/abs/1703.05605

<table>
<thead>
<tr>
<th>Free-hand sketch</th>
<th>Natural image (top)/Sketch-token(bottom)</th>
<th>Free-hand sketch</th>
<th>Natural image (top)/Sketch-token(bottom)</th>
</tr>
</thead>
<tbody>
<tr>
<td>alarmclock</td>
<td>![Image of alarmclock]</td>
<td>![Image of tree]</td>
<td>![Image of tree]</td>
</tr>
<tr>
<td>armor</td>
<td>![Image of armor]</td>
<td>![Image of cow]</td>
<td>![Image of cow]</td>
</tr>
<tr>
<td>castle</td>
<td>![Image of castle]</td>
<td>![Image of teapot]</td>
<td>![Image of teapot]</td>
</tr>
</tbody>
</table>
Mastering Sketching, Simo-Serra et al., 2017
https://arxiv.org/abs/1703.08966
Neurogram, Studio Otoro, 2015
http://blog.otoro.net/2015/07/31/neurogram/
Generating Large Images from Latent Vectors, Studio Otoro, 2016

http://blog.otoro.net/2016/04/01/generating-large-images-from-latent-vectors/
http://blog.otoro.net/2016/03/25/generating-abstract-patterns-with-tensorflow/
DiscoGAN, Kim et al., 2017
https://github.com/carpedm20/DiscoGAN-pytorch
https://arxiv.org/abs/1703.05192
Deep Photo Style Transfer, Luan et al., 2017
https://arxiv.org/abs/1703.07511
https://github.com/luanfujun/deep-photo-styletransfer
Mask-R CNN, He et al., 2017
https://arxiv.org/abs/1703.06870
Dance Dance Convolution, Donahue et al., 2017
https://arxiv.org/abs/1703.06891
Negative Images, Hosseini and Poovendran, 2017
https://arxiv.org/abs/1703.06857
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