[가천대 특강]

■ AI를 활용하는 아티스트 및 알고리즘

가천대 예술대 AI스터디 github;

https://github.com/artjow/-AI-

유투브 강의;

 $\underline{https://www.youtube.com/watch?v=NifflCk3kcg\&list=PLibvwRbJP3JgKdC4eaGNs8ef-rqI2soly}$

구글드라이브 개설 예정

[특강 시간표]

월2회

시간;1시간30분

총10회

주요수업내용; AI기초 실습, 응용

회차	내용	기타
1	구글콜랩, 깃허브, 구글드라이브	
2	딥러닝 이론	
3	딥러닝 이론	
4	딥러닝 이론	
5	AI 실습	
6	AI 실습	
7	AI 실습	
8	프로젝트	
9	프로젝트	전시준비
10	프로젝트	전시준비

1) 레픽아나돌

https://www.youtube.com/watch?v=I-EIVlHvHRM https://vimeo.com/143832421 (CycleGAN)

2) Bluetech - Point Cloud [Visualization]
Artist - Bluetech
https://www.youtube.com/watch?v=G0Y_-uKFD-0

3) Neural Style Transfer https://vimeo.com/211112819

4) 코우이 나카마 (Kouhei Nakama) https://vimeo.com/176703851

5) Photo Wake-Up: 3D Character Animation from a Single Photo https://www.youtube.com/watch?v=G63goXc5MyU&t=7s
프로젝트페이지: https://grail.cs.washington.edu/projects/wakeup/

6)스콧이튼(pix2pix) http://www.scott-eaton.com/

7) style transfer https://www.youtube.com/watch?v=vQk_Sfl7kSc

8) Recycle-GAN https://github.com/aayushbansal/Recycle-GAN

9) StyleGAN, StyleGAN2

A Style-Based Generator Architecture for Generative Adversarial Networks https://www.youtube.com/watch?v=kSLJriaOumA&t=13s

StyleGAN2

https://www.youtube.com/watch?v=LsqmCjTtU2U https://www.youtube.com/watch?v=9QuDh3W3lOY&t=5s

10) 메모악텐(Memo Akten)

논문; 깊은 명상 : 잠재 공간의 제어 된 탐색(Deep Meditations: Controlled navigation of latent space) https://nips2018creativity.github.io/doc/Deep_Meditations.pdf 코드; https://github.com/memo/py-msa-kdenlive

- 비주얼 네트워크는 ProGAN
- 오디오 네트워크는 Grannma MagNet

http://www.memo.tv/works/deep-meditations/#moreinfo

Deep Meditations, 90s snippet

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11) LeNet, AlexNet, ZFNet, VGG, GoogLeNet, ResNet

https://hoya012.github.io/blog/deeplearning-classification-guidebook-1/

12) CNN아키텍처

http://taewan.kim/post/cnn/

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https://colab.research.google.com/github/minsuk-heo/tf2/blob/master/jupyter_noteb ooks/07.CNN.ipynb#scrollTo=_3TuH5_o4fnP

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https://news.artnet.com/market/9-artists-artificial-intelligence-1384207

마리오클링게만;

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https://www.youtube.com/watch?v=Jjv3m5oWICA&t=3s

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An Artist's New Tool: How the World's Leading Creators Use GauGAN;

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아론코블린

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14) 월드모델

http://aidev.co.kr/deeplearning/4304

논문리뷰; https://www.youtube.com/watch?v=dPsXxLyqpfs

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드라마(Dreamer)소개;https://brunch.co.kr/@synabreu/59

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17) GAN

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18) This AI Makes The Mona Lisa Speak...And More!

Few-shot Video-to-Video Synthesis

논문요약; https://nvlabs.github.io/few-shot-vid2vid/

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19) California Dreaming - Faye Wong in Chungking Express(중경삼림)

https://www.youtube.com/watch?v=7ol9qzDsCCQ

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https://www.youtube.com/watch?v=W-YD2Y8ojYE

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https://www.youtube.com/watch?v=31jZ8EymfMA

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20) First Order Motion Model for Image Animation(딥페이크) https://www.youtube.com/watch?v=mUfIOOKdtAk&t=72s

21) Everybody Dance Now

논문리뷰; https://carolineec.github.io/everybody_dance_now/ 깃허브; https://github.com/carolineec/EverybodyDanceNow 유투브; https://www.youtube.com/watch?v=PCBTZh41Ris

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22) AI가 생성한 음악

Mr Shadow: a song composed with Artificial Intelligence https://www.youtube.com/watch?v=lcGYEXJqun8

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24) 동영상을 만화로 변환해주는 사이트 https://elwlsek.tistory.com/1296

25) [SIGGRAPH 2019] 2차원 움직임 재표적을 위한 학습특성-무관성 운동(Learning Character-Agnostic Motion for Motion Retargeting in 2D) https://www.youtube.com/watch?v=fR4h4OjZSdU

26) Animated Deep Fakes - Rick & Morty | Animating with AI https://www.youtube.com/watch?v=oHxtEGIXnNs

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27) Calipso: Physics-based Image and Video Editing through CAD Model Proxies

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코드; https://github.com/clovaai/stargan-v2

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30) How to Train Your Artist.

https://medium.com/merzazine/how-to-train-your-artist-cb8f188787b5 구글콜랩:

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https://colab.research.google.com/github/tg-bomze/Face-Image-Motion-Model/blob/master/Face_Image_Motion_Model_(Photo_2_Video)_Eng.ipynb

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https://honeycomb-makers.tistory.com/19

35) DiscoGAN

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36) OpenAI DALL·E: Fighter Jet For The Mind! https://www.youtube.com/watch?v=C7D5EzkhT6A

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41) 딥러닝 비용함수, 유사도

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45) 바다위의 재봉틀; text-to-image

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