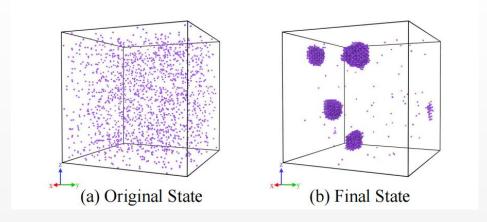
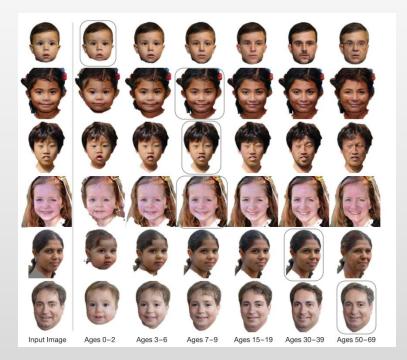
2021.9.27组会

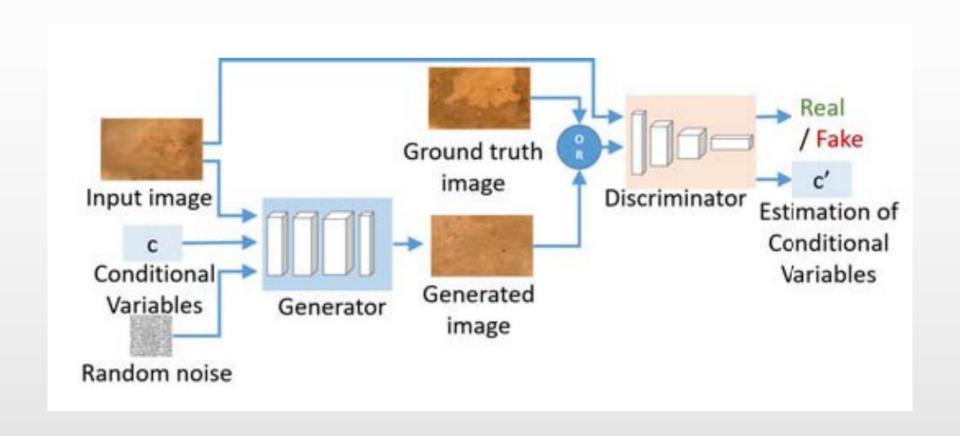
徐磊

KMC相关: KMC模拟与cv的人脸老化问题





KMC相关: CGAN网络



Papadopoulos, S., et al. (2018). Modelling of Material Ageing with Generative Adversarial Networks. 2018 IEEE 13th Image, Video, and Multidimensional Signal Processing Workshop (IVMSP).

下一步计划:

完成一个简单的二维材料模拟的GAN网络

大约接下来两周完成:

- 用kmc程序跑出足够多的二维数据;
- 搭建一个建议的gan网络,初步实现训练过程。

组内服务器: 系统信息

```
.-/+00SSSS00+/-.
                                        user@user-NF8480M5
       :+ssssssssssssssss+:
    -+sssssssssssssssyyssss+-
                                        OS: Ubuntu 20.04.3 LTS x86_64
  .osssssssssssssssdMMMNysssso.
                                        Host: NF8480M5 00001
 /sssssssssshdmmNNmmyNMMMMhssssss/
                                        Kernel: 5.4.0-42-generic
+sssssssshmydMMMMMMMMddddysssssss+
                                        Uptime: 3 days, 1 hour, 3 mins
                                        Packages: 1569 (dpkg), 7 (snap)
ssssssshnmmmyhhyyyyhmnmmmhsssssss/
sssssssdMMMNhsssssssshNMMMdsssssss.
                                        Shell: bash 5.0.17
sssshhhyNMMNyssssssssssyNMMMyssssss+
                                        Resolution: 1024x768
ssyNMMMNyMMhsssssssssssshmmmhssssssso
                                        Terminal: /dev/pts/1
ssyNMMMNyMMhsssssssssssshmmmhssssssso
                                        CPU: Intel Xeon Gold 6240 (72) @ 3.900GHz
sssshhhyNMMNysssssssssssyNMMMyssssss+
                                        GPU: 03:00.0 ASPEED Technology, Inc. ASPEED Graphics Family
sssssssdMMMNhssssssssshNMMMdsssssss.
                                        Memory: 2657MiB / 515381MiB
/ssssssshNMMMyhhyyyyhdNMMMNhsssssss/
+ssssssssdmydMMMMMMMddddysssssss+
 /sssssssssshdmNNNNmyNMMMMhssssss/
  .osssssssssssssssdMMMNysssso.
    -+ssssssssssssssyyyssss+-
       :+sssssssssssssss+:
          .-/+00SSSS00+/-.
```

组内服务器:处理器信息

```
Architecture:
                                 x86_64
CPU op-mode(s):
                                 32-bit, 64-bit
Byte Order:
                                 Little Endian
Address sizes:
                                 46 bits physical, 48 bits virtual
CPU(s):
On-line CPU(s) list:
                                 0-71
Thread(s) per core:
Core(s) per socket:
                                 18
Socket(s):
NUMA node(s):
Vendor ID:
                                 GenuineIntel
CPU family:
                                 6
lodel:
Model name:
                                 Intel(R) Xeon(R) Gold 6240 CPU @ 2.60GHz
Steppina:
CPU MHz:
                                 1000.998
                                 3900.0000
CPU max MHz:
CPU min MHz:
                                 1000.0000
BogoMIPS:
                                 5200.00
Virtualization:
                                 VT-x
L1d cache:
                                 1.1 MiB
L1i cache:
                                 1.1 MiB
L2 cache:
                                 36 MiB
L3 cache:
                                 49.5 MiB
NUMA node0 CPU(s):
                                 0-17.36-53
NUMA node1 CPU(s):
                                 18-35.54-71
Vulnerability Itlb multihit:
                                 KVM: Mitigation: Split huge pages
                                 Not affected
Vulnerability L1tf:
Vulnerability Mds:
                                 Not affected
Vulnerability Meltdown:
                                 Not affected
Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via prctl and seccomp
Vulnerability Spectre v1:
                                 Mitigation: usercopy/swapgs barriers and __user pointer sanitization
Vulnerability Spectre v2:
                                 Mitigation; Enhanced IBRS, IBPB conditional, RSB filling
Vulnerability Srbds:
                                 Not affected
Vulnerability Tsx async abort:
                                 Mitigation; TSX disabled
Flags:
                                 fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush dts acpi mmx fxs
                                 r sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp lm constant_tsc art arch_perfmon pebs bts rep_
                                 good nopl xtopology nonstop_tsc cpuid aperfmperf pni pclmulqdq dtes64 monitor ds_cpl vmx smx est
                                  tm2 ssse3 sdbg fma cx16 xtpr pdcm pcid dca sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer
                                  aes xsave avx f16c rdrand lahf_lm abm 3dnowprefetch cpuid_fault epb cat_l3 cdp_l3 invpcid_singl
                                 e intel_ppin ssbd mba ibrs ibpb stibp ibrs_enhanced tpr_shadow vnmi flexpriority ept vpid ept_ad
                                  fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms invpcid cgm mpx rdt_a avx512f avx512dg rdseed adx
                                 smap clflushopt clwb intel_pt avx512cd avx512bw avx512vl xsaveopt xsavec xgetbv1 xsaves cqm_llc
                                 cqm_occup_llc cqm_mbm_total cqm_mbm_local dtherm ida arat pln pts hwp hwp_act_window hwp_epp hwp
                                 _pkg_req pku ospke avx512_vnni md_clear flush_l1d arch_capabilities
```

存储信息:

```
xulei@user-NF8480M5:~$ free -m
              total
                                        free
                                                   shared buff/cache
                                                                        available
                            used
             515381
                            2616
                                      507195
                                                        6
                                                                 5569
                                                                            509736
Mem:
               2047
                                        2047
Swap:
                               0
xulei@user-NF8480M5:~$ df -h
Filesystem
                Size
                      Used Avail Use% Mounted on
udev
                                    0% /dev
                252G
                             252G
                          0
tmpfs
                 51G 3.0M
                              51G
                                    1% /run
/dev/sda2
                879G 8.1G
                             826G
                                    1% /
                                    0% /dev/shm
tmpfs
                252G
                             252G
                          Θ
tmpfs
                                    0% /run/lock
                5.0M
                          0
                             5.0M
tmpfs
                252G
                             252G
                                    0% /sys/fs/cgroup
/dev/loop0
                                0 100% /snap/core18/1880
                 55M
                        55M
/dev/loop1
                                0 100% /snap/gnome-3-34-1804/36
                256M
                       256M
/dev/loop3
                                0 100% /snap/snapd/8542
                 30M
                        30M
/dev/loop2
                                0 100% /snap/gtk-common-themes/1506
                 63M
                        63M
/dev/loop4
                                0 100% /snap/snap-store/467
                        50M
                 50M
/dev/sda1
                511M
                      5.3M
                                    2% /boot/efi
                             506M
/dev/sdb1
                        24K
                              21T
                                    1% /data
                 22T
tmpfs
                                    1% /run/user/1000
                        20K
                              51G
                 51G
/dev/loop5
                       56M
                                0 100% /snap/core18/2128
                 56M
/dev/loop6
                                0 100% /snap/snapd/13170
                 33M
                        33M
/dev/loop7
                                0 100% /snap/bare/5
                128K
                       128K
/dev/loop8
                       51M
                                0 100% /snap/snap-store/547
                 51M
/dev/loop9
                                0 100% /snap/gtk-common-themes/1519
                 66M
                        66M
/dev/loop10
                                0 100% /snap/gnome-3-34-1804/72
                 219M
                      219M
tmpfs
                      8.0K
                                    1% /run/user/1002
                 51G
                              51G
```

编译器信息:

```
user@user-NF8480M5:~$ gcc -v
Using built-in specs.
COLLECT_GCC=acc
COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/9/lto-wrapper
OFFLOAD_TARGET_NAMES=nvptx-none:hsa
OFFLOAD_TARGET_DEFAULT=1
Target: x86_64-linux-gnu
Configured with: ../src/configure -v --with-pkgversion='Ubuntu 9.3.0-17ubuntu1~20.04' --with-bugurl=file:///usr/share/doc/gcc-9/R
EADME.Bugs --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --prefix=/usr --with-gcc-major-version-only --program-
suffix=-9 --program-prefix=x86_64-linux-gnu- --enable-shared --enable-linker-build-id --libexecdir=/usr/lib --without-included-ge
ttext --enable-threads=posix --libdir=/usr/lib --enable-nls --enable-clocale=gnu --enable-libstdcxx-debug --enable-libstdcxx-time
=yes --with-default-libstdcxx-abi=new --enable-gnu-unique-object --disable-vtable-verify --enable-plugin --enable-default-pie --w
ith-system-zlib --with-target-system-zlib=auto --enable-obic-gc=auto --enable-multiarch --disable-werror --with-arch-32=i686 --wi
th-abi=m64 --with-multilib-list=m32,m64,mx32 --enable-multilib --with-tune=generic --enable-offload-targets=nvptx-none=/build/gcc
-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa --without-cuda-driver --enable-checking=release --build=x86_64-linux-gnu --host=x8
6_64-linux-gnu --target=x86_64-linux-gnu
Thread model: posix
gcc version 9.3.0 (Ubuntu 9.3.0-17ubuntu1~20.04)
user@user-NF8480M5:~$ mpichversion
MPICH Version:
                        3.3.2
MPICH Release date:
                        Tue Nov 12 21:23:16 CST 2019
MPICH Device:
                        ch3:nemesis
                        --build=x86_64-linux-gnu --prefix=/usr --includedir=${prefix}/include --mandir=${prefix}/share/man --info
MPICH configure:
dir=${prefix}/share/info --sysconfdir=/etc --localstatedir=/var --disable-silent-rules --libdir=${prefix}/lib/x86_64-linux-qnu --
runstatedir=/run --disable-maintainer-mode --disable-dependency-tracking --with-libfabric --enable-shared --prefix=/usr --enable-
fortran=all --disable-rpath --disable-wrapper-rpath --sysconfdir=/etc/mpich --libdir=/usr/lib/x86_64-linux-gnu --includedir=/usr/
include/x86 64-linux-gnu/mpich --docdir=/usr/share/doc/mpich CPPFLAGS= CFLAGS= CXXFLAGS= FFLAGS= FCFLAGS= BASH SHELL=/bin/bash
MPICH CC:
                gcc -g -O2 -fdebug-prefix-map=/build/mpich-VeuB8Z/mpich-3.3.2=. -fstack-protector-strong -Wformat -Werror=format
-security -02
MPICH CXX:
                g++ -g -O2 -fdebug-prefix-map=/build/mpich-VeuB8Z/mpich-3.3.2=. -fstack-protector-strong -Wformat -Werror=format
-security -02
MPICH F77:
                f77 -g -02 -fdebug-prefix-map=/build/mpich-VeuB8Z/mpich-3.3.2=. -fstack-protector-strong -02
MPICH FC:
                f95 -g -02 -fdebug-prefix-map=/build/mpich-VeuB8Z/mpich-3.3.2=. -fstack-protector-strong -cpp -02
MPICH Custom Information:
```

账号:

• 内网: 10.208.128.243

• 外网: 159.226.41.103

• port: 4404

● user:姓名全拼.eg: xulei

• password: 姓名全拼+007! eg:xulei007!