Procedura per convertire video in frame.event con ros

* Aprire wsl e run : *roscore*
* Aprire altro wsl e run :

*conda activate vmr*

*echo "source ~/sim\_ws/devel/setup.bash" >> ~/setupeventsim.sh*

*chmod +x ~/setupeventsim.sh*

*alias ssim='source ~/setupeventsim.sh'*

*ssim*

*export DISPLAY=$(ip route|awk '/^default/{print $3}'):0.0*

* *Run c****onfig.xlaunch*** *nel desktop(oppure crea nuova conf spuntando la casella ‘disable access control’)*

*cd /tmp/*

*Github esim : comandi per tagliare e ridimensionare frame*

**Creare frame:** *ffmpeg -i video91.mp4* ***-filter:v fps=fps=1/60*** *frames/frames\_%010d.png*

*mkdir frames*

*ffmpeg -i video.mp4* -filter:v fps=fps=20 /home/ninad/example/test\_vmr/frames/*frames\_%010d.png*

*ffmpeg -i video91.mp4* -filter:v fps=fps=20 /mnt/e/*frame/frames\_%010d.png # path nell’hardiks*

* *Per processare + video: python prova.py --video /tmp/batch2*

*roscd esim\_ros*

*python scripts/generate\_stamps\_file.py -i /*home/ninad/example/test\_vmr/esim *-r 20.0*

*rosrun esim\_ros esim\_node --data\_source=2 --path\_to\_output\_bag=/tmp/cheetah\_example/esmi\_frame!=/video.****bag*** *--path\_to\_data\_folder=/tmp/cheetah\_example/****esmi\_frame!****= --ros\_publisher\_frame\_rate=30 --exposure\_time\_ms=10.0 --use\_log\_image=1 --log\_eps=0.1 --contrast\_threshold\_pos=0.15 --contrast\_threshold\_neg=0.15*

**Per visualizare:**

*rosrun dvs\_renderer dvs\_renderer events:=/cam0/events*

*rosbag play /tmp/cheetah\_example/out.bag -l -r 0.1*

*rqt\_image\_view /dvs\_rendering*

***Per estrarre i frame***

*Eseguire: rosrun dvs\_renderer dvs\_renderer events:=/cam0/events*

*Creare il file explor.launch (vedere esempio dentro vmr)*

roslaunch export.launch

* *dove salva frame -> cd ~*

*mkdir test*

*mv ~****/.ros/****frame\*.jpg test/*

*Launch*

*<param name="sec\_per\_frame" value="0.1"/>*

***HARDISK***

*Path: /mnt/e*

*Collegarlo :* sudo mount -t drvfs E: /mnt/e Scollegarlo: sudo umount /mnt/e

**Tagliare video**

ffmpeg -i video.mp4 -ss 00:00:15 -t 00:00:30 -async 1 -strict -2 video\_cut.mp4