

Movie: ***Back To The Wild***

File: ECE498MH_Project.mov

Length: 50 Second

Resolution: 720 * 1280

Frame rate: 30 frames/Second

Creator: Tao Feng

Documentary Story: Humans once ruthlessly destroyed their environment, all the big mammals were extinct in the wild ecosystem, only a few left in the labs....

One hundred years later, Humans realize their mistake and start a Rehabilitation Project. At the pilot stage, people release leopards and antelopes into the wild Africa's Savanna.

But it seems that leopards and antelopes were not like their ancestries anymore after hundreds years of domestication.

They need time and practice to call back and restore their body and nature.

In the movie *Back To The Wild* (file: ECE498MH_Project.mov), people recorded a clip to display leopards' and antelopes' ambition as well as struggle to rehabilitation.

Effect Checklist:

- 1.1 The original clip is from time 00:00:00 to 00:00:23 of the movie.
- 1.2 I applied different technics we used in all labs and display various effects in the movie from time 00:00:23 to 00:00:50.
- 2.1 From time 00:00:23 to 00:00:31 in the movie, I blurred the image sequence with the technique we used in “blurmovie.m”, I also used technique we used in LAB3 to add the echoes in the corresponding audio to emphasis the intensity of preying, you can hear the echoes of footsteps, this is achieved by creating an feedback signal $y[n]=x[n]+sy[n-d]$, where I use a delay of $d=fs$, the audio frequency and $s=-0.9$ to get the effect.. (LAB3 & Image blur)
- 2.2 From time 00:00:31 to 00:00:35 in the movie, I use the technique we used Lab6 to filter the image sequence with low pass filter, I also used technique we used in LAB1 to generate the synthesized harmonics in the corresponding audio track, with increasing harmonics sequence of combine 1, 2, 10, 20. (LAB1 & LAB6)
- 2.3 From time 00:00:36 to 00:00:43 in the movie, I use the technique we used Lab7 to up-sample the image sequence with factor of $K=3$, I also used technique we used in LAB2 to generate the periodic repetition of damped sinusoids “beep” to the corresponding audio track to render some funny effect of rolling leopard and antelope . (LAB2 & LAB7)
- 2.4 From time 00:00:44 to 00:00:50 in the movie, I use the technique we used Lab4 to filter the image sequence with certain color (red, green, blue) and display the heavily convoluted image sequence with more clear edge display, I also used technique we used in LAB5 to apply the NOTCH-FILTER to the corresponding audio track to render the effect that leopard and antelope are rolling away and to the end of the movie. (LAB4 & LAB5)

