# 开源视频质量评价工具: Evalvid

2013年09月16日 12:35:28 阅读数:16102

Evalvid是一个对在真实或模拟的网络里传输的视频进行质量评价的框架和工具集。除了底层网络的QoS参数的测量,如丢包率,延迟,抖动,Evalvid还提供标准的视频质量评价算法如 PSNR 和 SSIM 。它视频编码方面支持 H.264 , MPEG-4 和 H.263 。音频编码方面支持 AAC 。Evalvid是开源的,由jirka klaue编写。

出品Evalvid的机构:TKN - the Telecommunication Networks Group,是 柏林工业大学的 电气工程和计算机科学 学院。



Evalvid中的PSNR工具用于计算原始序列与受损序列之间的PSNR或者SSIM。

PS:虽然名字叫"PSNR",实际上是可以计算SSIM的,在命令行后面添加参数"ssim"即可。

#### 命令格式:

	[plain] 📳 📋	
1.	psnr x y <yu< th=""><th>V format&gt; <src.yuv> <dst.yuv> [multiplex] [ssim]</dst.yuv></src.yuv></th></yu<>	V format> <src.yuv> <dst.yuv> [multiplex] [ssim]</dst.yuv></src.yuv>
2.	X	视频宽度
3.	У	视频宽度
4.	YUV format	420, 422
5.	src.yuv	原始序列
6.	dst.yuv	受损序列
7.	[multiplex]	可选
8.	[ssim]	可选: 计算SSIM而不是PSNR

使用示例(YUV格式:宽高为480x272,采样格式YUV420P,受损视频为src01\_480x272\_0.100.yuv,原始视频src01\_480x272.yuv):

### 计算PSNR:

psnr 480 272 420 src01\_480x272\_0.100.yuv src01\_480x272.yuv > ref\_psnr.txt

#### 计算CCIM

psnr 480 272 420 src01\_480x272\_0.100.yuv src01\_480x272.yuv ssim > ref\_ssim.txt

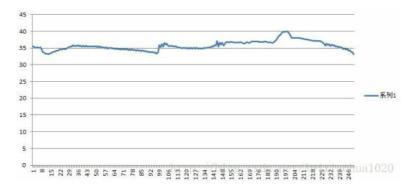
### 计算PSNR截图:



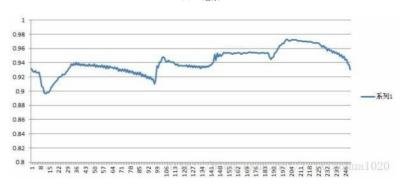
## 计算SSIM截图:

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# 计算结果可以导入Excel进行处理。 PSNR结果:



### SSIM结果:



网址: http://www2.tkn.tu-berlin.de/research/evalvid/

下载: http://download.csdn.net/detail/leixiaohua1020/6374037

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文章标签: 视频质量评价 evalvid psnr ssim

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