

From: Yoichi Yagasaki <yagasaki@av.crl.sony.co.jp>
Sent: Thursday, September 19, 2002 12:36 PM
To: ohm@ient.rwth-aachen.de; 'Yoichi Yagasaki'; avc_ce@ient.rwth-aachen.de; jvt-experts@mail.imtc.org; intwav@ient.rwth-aachen.de
Subject: [jvt-experts] Re:[avc_ce] RE: New HD test sequences

Dear Ohm-san,

Thank you for e-mail.

>Dear Yagasaki-san,

>

>thank you very much for this offer. I believe it is valuable to have HD
>material of different types. Also, as there is not yet a set of
>standard test sequences defined in HD, it is better to have some more
>for study to select the appropriate ones.

>

>I do not fully understand yet what the terms of usage would be in the
>case of your sequences. For the 720p sequences, we have settled for a
>very nice arrangement, allowing relatively free use in standardization
>research for ITU, MPEG and JVT, not restricted to a specific project.
>Would this likewise apply to your sequences, or would the usage be
>restricted to the usage in AVC coding efficiency tests ?

I have provided these 4 HD sequences for MPEG-4 AVC/JVT standarization purpose only.
So at this moment, the usage period is limited until AVC/JVT become International standards.
I might be able to extend or widen the usage in the future, but at this moment, I do not know.

I hope these HD sequences will provide fruitful information for defining AVC/JVT standards.

Best Regards,

Yoichi Yagasaki

>Best regards,

>Jens

>

> > -----Original Message-----

> > From: Yoichi Yagasaki [mailto:yagasaki@av.crl.sony.co.jp]

> > Sent: Tuesday, September 17, 2002 11:23 AM

> > To: Jens-Rainer Ohm; avc_ce@ient.rwth-aachen.de;

> > jvt-experts@mail.imtc.org; intwav@ient.rwth-aachen.de

> > Subject: [jvt-experts] Re:[avc_ce] RE: New HD test sequences

> >

> >

> > Dear Ohm-san, TK-san and ad hoc members,

> >

>> I appreciate Ohm-san has distributed 720p materials.
>> We would like to add some HDTV materials for AHG on coding
>> efficiency analysis and testing of AVC, if members agree to have
>> more materials.
>>
>> We've distributed some HDTV materials for AHG on Level Constraints.
>> We can provide those materials for coding efficiency analysis and
>> testing of AVC.
>>
>> Our materials are 1080@30i captured by CCD camera and stored with NO
>> compression by 1-inch VTR.
>>
>> The resolution of the materials are very high.
>> I think that we should add those high resolution video as well as
>> film scanned materials to cover wider range of materials.
>>
>> If we agree to add those materials, we can provide coding results of
>> those materials for MPEG meeting.
>>
>> BTW, I need to maintain distribution list for those materials from
>> copyright issues.
>>
>> Best Regards,
>>
>> Yoichi Yagasaki
>>
>> Remark: I have cleared copyright issues for this JVT standardization
>> purpose only. So Please not to use them for other purpose, like
>> trade show or papers/journals and etc.
>>
>>>As a side note, I am working to get additional sequences for
>> our test
>>>purposes -
>>>
>>>720/24P film originated (with grain, a completely different shutter
>>>angle (integration time), and telecine footprint) 1080/24P film
>>>originated (with grain, a completely different shutter angle
>>>(integration time), and telecine footprint) 1080/24P
>>> electronic camera
>>>originated (with signal and noise characteristics particular to two
>>>different classes of manufacturer
>>>electronics)
>>>1080/30i electronic camera originated (with signal and noise
>>>characteristics particular to two or more different classes of
>>>manufacturer electronics)
>>>
>>>I am hoping that the 1080/24P film originated and 1080/24P
>> electronic
>>>camera originated are useful for the MPEG D.C. AHG's
>> D-Cinema testing
>>>later this year and early next.
>>>

>>>Tom McMahon
>>>Chief Architect
>>>DGMX, Inc.
>>>+1-310-578-7848 x236
>>>tlm@demografx.com
>>>http://www.demografx.com
>>>
>>>
>>>-----Original Message-----
>>>From: Jens-Rainer Ohm [mailto:ohm@ient.rwth-aachen.de]
>>>Sent: Friday, September 06, 2002 2:37 PM
>>>To: avc_ce@ient.rwth-aachen.de; jvt-experts@mail.imtc.org;
>>>intwav@ient.rwth-aachen.de
>>>Subject: [jvt-experts] New HD test sequences
>>>
>>>
>>>Dear Video Experts,
>>>
>>>this is to announce that we have a number of HD sequences
>>>available now
>>>for work in standardization related research. D5 tapes
>>>containing quite
>>>a good range of material were donated by ABC, NASA and DemoGrafx.
>>>At RWTH, we have done a selection from the tapes and converted
>>>into files.
>>>The sequences are contained in zip files, where each of the
>>>archives also includes the copyright notification about terms of
>>>usage (this is
>>>also attached to this mail).
>>>
>>>Login to University Hannover ftp site
>>>(ftp.tnt.uni-hannover.de) which
>>>is accessible to MPEG members by login "sc29wg11" with usual MPEG
>>>password. For ITU VCEG members, people at UH have installed a "vceg"
>>>login. To get the latter password, please contact Gary or Thomas
>>>who know it; as I will attend a workshop until mid of next week,
>>>it may be
>>>hard to reach me.
>>>
>>>"vceg" will be at home directory "testsequences/" right after login.
>>>
>>>We have produced a total of 12 sequences to play with and get first
>>>experience which ones may be good for testing. Most are 600
>>>frames (10
>>>seconds), all in 720p (1280x720@60 frames/s), in some cases it was
>>>necessary to take shorter or longer sequences due to the length of
>>>usable shots on the tapes.
>>>
>>>
>>>A short summary about the sequences:
>>>
>>>- BigShips: two huge old sailing-ships crossing by, then

> > dissolve into
 > > > a detail scene from another ship, with zoom - 600 frames
 > > >
 > > >- City: breathtaking view from a flight over New York (includes
 > > > scene
 > > > cut) - 900 frames
 > > >
 > > >- Crew: space shuttle crew on way to their bus, many
 > > > flashlights - 600
 > > > frames
 > > >
 > > >- Cyclists: street scene with camera motion - 600 frames
 > > >
 > > >- Harbour: a harbour scene with lots of small details - 600 frames
 > > >
 > > >- Jets: group of jet fighters taking off for flight show, includes
 > > > dissolve, fast motion - 550 frames
 > > >
 > > >- Optis: a bunch of small sailing-ships (so-called "optimists")
 > > > crossing within a harbour - 600 frames
 > > >
 > > >- Night: night scene from New York - 460 frames
 > > >
 > > >- Raven: bird walking a meadow with sudden blur and detail changes
 > > >-
 > > > 600 frames
 > > >
 > > >- Sailormen: detail scene from the deck of an old sailing-ship -
 > > > 600 frames
 > > >
 > > >- Sheriff: a sheriff's boat - 600 frames
 > > >
 > > >- Shuttle: "Atlantis" taking off for space mission - 600 frames
 > > >
 > > >
 > > > At the UH ftp site change to directory "testsequences/hd/"
 > > > to find the
 > > > sequences formatted into 4:2:0, 8 bit depth "*.yuv" files,
 > > > which should
 > > > be readily usable by many coding test software packages. The
 > > > downconversion was run by Gary. Some comments from him: "Filters
 > > > are such that chroma samples are off by half a luma sample width in
 > > > vertical phase. The nominal range is scaled, so Y ranges
 > > > nominally from
 > > > 16 to 235 and U and V range nominally from 16 to 240, based on an
 > > > assumption that the input nominal range for the RGB is 0 to
 > > > 1023. The
 > > > RGB->YUV conversion matrix is using Kr=.2126, Kb=0.0722 as in the
 > > > 1125/60 variant of BT.709 (a.k.a. SMPTE 274M). (note that
 > > > lots of YUV
 > > > display programs would assume the BT.601 color space instead using
 > > > Kr=0.299, Kb=.114, such that you may get strange color impression)."

>>>
>>>Exact values of color conversion matrix are:
>>>Y=.2126R + .7152G +.0722B
>>>KB=(B-Y)/1.8556
>>>KR=(R-Y)/1.5784
>>>
>>>In addition there is the directory "testsequences/hd/DPX"
>>>where you can
>>>find "*.dpx" files, which are the original 10 bit RGBs as extracted
>>>from the tape.
>>>
>>>Next week, two more 720p / 60 fps sequences donated by BBC,
>>>"Spincalendar" and "Panslow", will be provided. For these
>>>sequences, which did not come on D5 tape, we still have to
>>>implement the same filters for 4:2:0 downsampling to make them
>>>consistent with
>>>the others.
>>>
>>>In particular, besides the providers of the sequences, I
>>>would like to
>>>thank Tom McMahon from DemoGrafx and Markus Beermann from RWTH who
>>>invested a lot of effort to make this happen.
>>>
>>>As we know the whole procedure now, it should not be too
>>>difficult to
>>>provide more material when necessary.
>>>
>>>Best regards,
>>>Jens
>>>
>>>-----
>>>
>>>|
>>>| Prof. Dr.-Ing. Jens-Rainer Ohm |
>>>|
>>>| Lehrstuhl und Institut Chair, Institute of |
>>>| fuer Nachrichtentechnik Communication Engineering |
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>>>|
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>>>-----
>>>avc_ce@ient.rwth-aachen.de (Email reflector of AHG on Coding

> > >Efficiency Analysis and Testing of AVC) To unsubscribe, send mail
> > >to majordomo@ient.rwth-aachen.de containing the body "unsubscribe
> > >avc_ce <your_email_address>"

> > >-----

> > -----

> >

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> > =====

> >

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> > The use of the jvt-experts list is intended only for the video

> > coding standardization work conducted by the Joint Video Team (JVT)

> > of ISO/IEC JTC1/SC29/WG11 (MPEG) and ITU-T

> > SG16 Q.6 (VCEG).

> >

> > You are currently subscribed to jvt-experts as:

> > ohm@ient.rwth-aachen.de To unsubscribe send a blank email to

> > %%email.unsub%%

> >

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You are currently subscribed to jvt-experts as: suehring@hhi.de To unsubscribe send a blank email to leave-jvt-experts-12909W@mail.imtc.org