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ISO/IEC JTC 1 SC 29

Kohtaro Asai, SC 29 Chair Yukiko Ogura, SC 29 Secretariat 2009 JTC 1 Plenary





scope of SC 29 (unchanged)

- Coding of Audio, Picture, Multimedia and Hypermedia information
- Standardization of coded representation of audio, picture, multimedia and hypermedia information - and sets of compression and control functions for use with such information such as
 - Audio information
 - Bi-level and Limited Bits-per-pixel Still Pictures
 - Digital Continuous-tone Still Pictures
 - Computer Graphic Images
 - Moving Pictures and Associated Audio
 - Multimedia and Hypermedia Information for Realtime Final Form Interchange
 - Audio Visual Interactive Script ware
 - Excluded: Character Coding





management summary

- SC 29: Coding of Audio, Picture, Multimedia and Hypermedia Information
 - WG 1: Coding of Still Pictures
 - WG 11: Coding of Moving Pictures and Audio
- 27 P-members and 16 O-members
- meetings
 - SC 29: 22nd SC 29 Plenary meeting (12)
 - WG 1: 46th (42), 47th (43), 48th (40) and 49th (35)
 - WG 11: 86th (353), 87th (221), 88th (245) and 89th (296)
- 111 ballots (2 for NP, 37 for CD, 35 for FCD, 1 for PDTR, 34 for FDIS and 2 for DTR) with sufficient number of participation
- 58 International Standards (1 for TR and 57 for IS/AMD/COR) published





liaisons

- Liaisons in JTC 1: 5
- Liaisons within ISO/TC and IEC/TCs: 8
- Category A Liaisons: 17
- Category B Liaisons: 3
- Category C Liaisons: 34
- SC 29 Liaison members

implementations of standards

- WG 1 (Coding of Still Pictures) JPEG, JBIG
 - Digital Still Camera and photo viewers
 - Digital Cinema
 - Digital images on the web, personal photos,...
- WG 11 (Coding of Moving Pictures and Audio) MPEG
 - Digital broadcasting & video delivery system (terrestrial, satellite, cable and IPTV)
 - Digital music player (MP3, AAC,...)
 - Mobile videophone, portable video player
 - DVD and Blu-ray player, recorder
 - Camcorder
 - Broadcasting programs, Internet streaming, home video,...



outreach – press releases

- SC 29 (http://www.itscj.ipsj.or.jp/sc29/)
- WG 1 (http://www.jpeg.org/news.html)
 - Press Release 49th JPEG Meeting, July 2009
 - Press Release 48th JPEG Meeting, April 2009
 - Press Release 47th JPEG Meeting, January 2009
- WG 11

(http://www.chiariglione.org/mpeg/for_the_media.htm)

- Press Release 89th MPEG Meeting, June 2009
- Press Release 88th MPEG Meeting, April 2009
- Press Release 87th MPEG Meeting, February 2009



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- ISO Focus
 - April 2009
 - ISO and the Media



The Co-Chairs and members of MPEG's video subgroup and the JVT at the NATAS Emmy award ceremony in January 2009, with the paired awards presented to SOJ/IEC MPEG and ITU-T VCEG: from let1. Jens-Rainer Ohm, Garv J. Sulfixan. Thomas Wiedon and Alay Lutina.

Photo credit: Marc Bryan-Brown Photograph

And the Emmy goes to ... The MPEG story

by Jens-Rainer Ohm and Gary J. Sullivan, Co-Chairs of the Video sub-group of ISO/IEC JTC 1/SC 29/WG 11, Coding of moving pictures and audio

he ISO/IEC Moving Picture Experts
Group, or MPEG as it is most
commonly known, recently celebrated its 20th anniversary. Part of joint
technical committee ISO/IEC JTC 1,
Information technology, subcommittee
SC 29, Coding of audio, picture, multimedia and hypermedia information,
it has, since the beginning, been at the

leading edge of defining digital media standards for consumer and professional applications.

With filename extensions like mp3, mpg, and mp4 in everyday use, and MPHG features advertised for equipment in every consumer electronics shop, it can be said that most people in the world know the acronym "MPHG" better than they know the meaning behind it.

Tremendous market adoption

The most recent MPEG video coding standard – MPEG-4 Advanced video coding (AVC) – has been the subject of especially newsworthy events. Embodied in the International Standard ISO/IEC 14496-10, and the International Telecommunication Union

ISO Focus April 2009 11

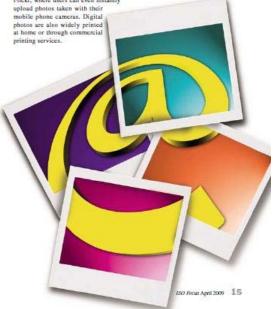
JPEG – Still photography brought to life

by Daniel T. Lee, Convenor, ISO/IEC JTC 1/SC 29/WG 1, Coding of still pictures

haring photographs over the Internet has become one of the most interesting modes of social interaction since the advent of modern digital media.

Millions of images are shared every day among friends and family in e-mails, photo-hosting Web sites and the enormously popular social networking sites, like MySpace, Facebook and Flickr, where users can even instantly upload photos taken with their mobile phone cameras. Digital photos are also widely oritted Digital photography has not replaced traditional chemical photography, but rather given photographers new creative tools and many new modes of printing. It has also contributed to the progress of e-commerce, where digital images of products and services offer new merchandising opportunities.

One enabler of this phenomenon is the availability of powerful and inexpensive digital cameras. Less visible to consumers, but nonetheless key, is the JPEG imaging standard – a joint project between ISO and the International Telecommunication Union's Telecommunication Standardization Sector (ITU-T). The JPEG standard, ISO/IEC 10918-1 or ITU-T recommendation T.S.1, giving requirements and guidelines for digital compression and coding of continuous-tone still images, was approved in 1992.







issues or needs

- Lack of participants
 - Currently enough resources (WG 1: 50, WG 11: 300)
 - SC 29 constantly monitors attendance of WGs
- Management of documents
 - depend on good electronic document repositories and systems
 - operated and maintained by WG members and SC Secretariat
- Uncertain presence of applicable patents
 - possible patents owned by parties that have not participated in the development process are not available on RAND terms
 - we encourage our members to submit patent statements expecting that it helps to clarify the potential licensors of applicable patents and to increase the opportunities of licensing under reasonable conditions



2010 - focus

■ WG 1

JPEG XR

 Higher compression, high-quality and high dynamic range in digital photography

JPSearch

work on Social tagging as JPSearch metadata support

AIC

 Subjective tests for JPEG XR and objective metrics for testing of compression algorithms





2010 - focus

- WG 11
 - HVC (High-performance Video Coding)
 - Higher compression with reasonable complexity
 - High resolution support for beyond HDTV (4K/8K) or HDTV-class video for mobile applications
 - USAC (Unified Speech and Audio Coding)
 - Supports both speech and audio efficiently
 - Many more projects
 - FTV/3DV (Free viewpoint Video), AIT (Advanced IPTV Terminal), Application formats, ...



2010 to 2012 – Beyond HDTV



Ultra High-Definition sheet television

Example:

- 100 inch TV on the wall
- >100 degree view angle
- up to 7680 x 4320 (8K)
- low power consumption employing OLED

Flexible television

Example:

- 25cm viewing distance
- 25 inch flexible display
- up to 7680 x 4320 resolution for twenty-twenty vision





2010 - meetings

- date/location of next SC plenary
 - 2010-04 or 07 in Germany
- date/location of joint WGs meeting
 - WG 1 and WG 11
 - **2009-10-26 to 30**
 - Xian, China

