INTERNATIONAL ORGANISATION FOR STANDARDISATION

ORGANISATION INTERNATIONALE DE NORMALISATION

ISO/IEC JTC1/SC29/WG11

CODING OF MOVING PICTURES AND AUDIO

**ISO/IEC JTC 1/SC 29/WG 11/N15341**

June 2015, Warsaw, Poland

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| **Source:** | **Requirements** |
| **Title:** | **Workshop on Future Video Coding Applications and Technologies** |
| **Status:** | **Approved, Public** |

Video is a very lively and fast moving application field and each video coding generation has to deal with new application requirements. ISO/IEC JTC 1/SC 29/WG 11 (MPEG) plans to hold a public half-day workshop on the afternoon of 21 October 2015, during the 113th WG11 meeting in Geneva, CH to acquire solid information about the context in which video coding will be operating in the future, and to review the status of existing technology with merits beyond HEVC.

From this, MPEG plans to draw conclusions for the needs and chances in video coding standardization during the next years. For this purpose, it is planned to invite speakers on the following key topics:

1. Applications: Which video signal resolutions are expected, which data rates will be manageable, which networks/storage/packaged media will become dominant during the next decade for transmission and storage of video for
   1. Video/movie content distribution,
   2. User-generated content,
   3. Surveillance,
   4. Conferencing, screen interaction, gaming,
   5. Other applications, e.g. automotive, medical and industrial.
2. Video equipment: Availability of cameras, displays, projectors etc. (both for professional and consumer sectors) around the year 2020
   1. Cameras/displays/projectors: High dynamic range, wide color gamut, multi-view, size/resolution of typical input signals, cost.
   2. Human factors: What size/resolution is useful considering the properties of human visual system? How likely is it that people will put very large displays (beyond HD) into their houses?
3. Compression technology
   1. What are known limitations or missing functionality of current compression technology, considering existing and new applications?
   2. New compression methods that could overcome such limitations.
4. Methods to evaluate performance: Visual quality, complexity.

The workshop will be organized by a single track of oral presentations. Several speakers with expertise in the areas listed above have already been invited, but additional contributions are more than welcome. When planning to give a presentation, please send a summary by **5 September 2015**, including title, author(s), area(s) as from the list above and an abstract of 500 words by email to the following persons (chairmen of MPEG video and requirements subgroups):

* + Jens-Rainer Ohm, [ohm@ient.rwth-aachen.de](mailto:ohm@ient.rwth-aachen.de)
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The final program, including exact times and site of the workshop, will be made available by **1 October 2015.** Information about acceptance of the contributions will be conveyed to proponents well ahead of that date. Note that contributions that could not be considered for presentation at the workshop due to limited availability of time will be reviewed during the week at the MPEG meeting.