

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

**Coding of moving pictures and audio**

**Convenorship: UNI (Italy)**

**ISO/IEC JTC 1/SC 29/WG 11 w19138**

**Document type: Approved WG 11 document**

**Title: Call for Test Data for Video Coding for Machines**

**Status: Approved**

**Date of document: 2020-01-17**

**Source: Requirements**

**Expected action:**

**No. of pages: 2**

**Email of convenor: leonardo@chiariglione.org**

**Committee URL: mpeg.chiariglione.org**

**INTERNATIONAL ORGANISATION FOR STANDARDISATION**

**ORGANISATION INTERNATIONALE DE NORMALISATION**

**ISO/IEC JTC1/SC29/WG11**

**CODING OF MOVING PICTURES AND AUDIO**

**ISO/IEC JTC1/SC29/WG11 MPEG2020/w19138**

**January 2020, Brussels, Belgium**

|  |  |
| --- | --- |
| **Source** | **Requirements** |
| **Status** |  |
| **Title** | **Call for Test Data for Video Coding for Machines** |

# Introduction

Video Coding for Machines (VCM) aims to standardize a compressed bitstream generated by compressing both a video stream and previously extracted features. The bitstream should enable efficient computation of multiple machine/human vision tasks.

When working towards an evaluation framework, VCM has discovered a need for test material to evaluate the compression rate and key task performance of the compressed bitstream. Please consult w18966for a description of these use cases.

# Required test data

In order to evaluate the performance differences between the original uncompressed video and the compressed bitstream, the neural networks need to be applied in specific key tasks, using specific performance metrics.

We hereby solicit the following test material:

Uncompressed data and ground truth for any of the key tasks described in w19080.

* Object Detection
* Image Segmentation
* Image/Video Reconstruction
  + High quality image or video data in natural, manufacturing, and indoor environments
* Image/Video Enhancement
* Etc

We welcome contributions of data sets that can also be made available to a broader community than MPEG.

# Logistics

The data sets should be submitted as input contributions to the 130th MPEG meeting (April 2020).

Contact for questions and further information:

* Patrick Dong ([Patrick.dong@gyrfalcontech.com](http://patrick.dong@gyrfalcontech.com))
* Yuan Zhang ([zhangy666@chinatelecom.cn](mailto:zhangy666@chinatelecom.cn))

Mailing list information can be found at <https://lists.aau.at/mailman/listinfo/mpeg-vcm>