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Part 8: Working practices using objective metrics for evaluation of video coding efficiency experiments

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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Foreword

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Information technology — MPEG video technologies —

Part 8: Working practices using objective metrics for evaluation of video coding efficiency experiments

1 Scope

This document provides general information about coding efficiency measurement practices for video coding. This document does not provide recommendations for evaluating video quality; it describes the practices that have recently been followed for coding efficiency experiments conducted during work to develop video coding standards.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following term and definition apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

3.1
Bjøntegaard delta bit rate
BD-rate
average percentage bit rate difference at equal measured distortion, integrated across a range of bit rates in the log domain

Note 1 to entry: The Bjøntegaard delta bit rate measurement method was originally specified in VCEG-M33[1].

4 Abbreviated terms

AVC	advanced video coding (Rec. ITU-T H.264 | ISO/IEC 14496-10)
BD-rate	Bjøntegaard delta bit rate
HDR	high dynamic range
HEVC	high efficiency video coding (Rec. ITU-T H.265 | ISO/IEC 23008-2)
HLG	hybrid log gamma
JCT-VC	joint collaborative team on video coding (for development of HEVC)
JVET	joint video experts team (for development of VVC)

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