



Technical Report

ISO/IEC TR 23888-3

Information technology — Artificial intelligence for multimedia —

Part 3: Optimization of encoders and receiving systems for machine analysis of coded video content

*Technologies de l'information — Intelligence artificielle pour le
multimédia —*

*Partie 3: Optimisation des codeurs et des systèmes de réception
pour l'analyse automatique de contenus vidéo codés*

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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 — Artificial intelligence for multimedia —

Part 3:

Optimization of encoders and receiving systems for machine analysis of coded video content

1 Scope

This document provides information about optimizations for encoders and receiving systems for conducting machine analysis tasks on coded video content. It provides a concept-level overview of recent practices and provides comments on technical aspects and cautions to be taken when interpreting the results. This document describes technologies that have recently been studied and have demonstrated benefits to coding efficiency for some machine analysis tasks.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitute requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

Rec. ITU-T H.266 | ISO/IEC 23090-3, *Versatile video coding*

Rec. ITU-T H.265 | ISO/IEC 23008-2, *High efficiency video coding*

Rec. ITU-T H.264 | ISO/IEC 14496-10, *Advanced video coding*

Rec. ITU-T H.274 | ISO/IEC 23002-7, *Versatile supplemental enhancement information messages for coded video bitstreams*

Bibliography

- [1] ISO/IEC TR 23888-1, *Information technology — Artificial intelligence for multimedia — Vision and scenarios*
- [2] ITU-T HSTP-VID-WPOM | ISO/IEC TR 23002-8, *Working practices using objective metrics for evaluation of video coding efficiency experiments*