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Complexity Reduction In Hvc Intra Coding And Comparison

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~~HEVC Basics Part II~~

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~~HEVC/H.265 Video
Coding Standard: Part
4 Video Codecs
& Compression
Guide (Feat. Atomos
Ninja V)~~

How To Edit H265 4K
Footage (HEVC) |
Fujifilm X-T3 &
Fujifilm X-T4.H.266,
AV1 & MPEG-5
Explained - New
Video Codecs for
2020 HEVC/H.265

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Video Coding In
Standard: Part 2
Analysis and
Complexity Reduction
of High Efficiency
Video Coding for Low-
Delay Communication
An Efficient Hardware
Architecture of Intra
Prediction in HEVC
Standard How To Edit
H265 Footage | FUJI
X-T3 H.265 (HEVC)
vs H.264 (AVC)

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*Compression: In
Explained! Elemental
Insights Webcast /
HEVC / H.265*

Scalable Video

Coding in HEVC

\u0026 AV1 -

Christian Feldmann |

July 2018 Hero6

**footage not
working? Here's
why and how to fix it
– HEVC H265
explained**

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~~Grading Fuji 4K HLG
in Davinci Resolve
H.264 (AVC) vs.
H.265 (HEVC)~~

**Simplified! Fuji XT3,
h.265 vs h.264,
10-bit vs 8-bit Fuji
Friday - H.265 vs
ProRes H.264 VS
H.265 - Plex**

Transcoding

Performance Video

~~Formats, Codecs and
Containers~~

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~~(Explained) How to
Understand Codecs~~

~~Fujifilm X-T3 4K
60FPS (10 Bit HEVC
H.265) - London at~~

~~Night~~
**Why I Export
EVERY VIDEO in**

ProRes ~~What is
HEVC / H.265 (High
Efficiency Video
Coding)?~~

~~Webinar- Simple and
Efficient HEVC~~

~~Encoder Solution~~
AV1

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~~vs. HEVC: Perceptual
Evaluation of Video
Encoders by Zhou
Wang *Faster GPU
Decoding in Premiere
Pro for H.264/HEVC
media*~~

~~Standardization of
High Efficiency Video
Coding (HEVC) BL
Quick Tips | H.265
(HEVC) vs H.264
(AVC): Which is
Better for 4K Video?~~

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**How I saved 20
TERABYTES with
one basic Script
(Updated 2019,
HEVC)**

Complexity
Reduction In Hevc
Intra

A deep convolutional
neural network
approach for
complexity reduction
on intra-mode HEVC.

Abstract: The High
Efficiency Video

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Coding (HEVC)

standard significantly saves coding bit-rate over the proceeding H.264 standard, but at the expense of extremely high encoding complexity. In fact, the coding tree unit (CTU) partition consumes a large proportion of HEVC encoding complexity, due to the brute-force

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search for rate-
distortion optimization
(RDO).

~~A deep convolutional
neural network
approach for ...~~

As HEVC is
tremendously
complex , several
approaches can be
found in the literature
that try to reduce this
complexity. For

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instance, early skip
and early CU
conditions [18] , [19] ,
finally adopted by the
HM reference
software [3] , try to
reduce the number of
iterations by applying
inter prediction.

~~Complexity reduction
in the HEVC/H265
standard based on ...~~
Complexity Reduction

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of HEVC SAO Intra
Modes By Adjustment
of Offset Values. ...
Com plexity

Reduction of HEVC
SAO Intra Modes By
Adjustmen t of Offset
Values) 6.07%. 8.56
%.

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Reduction of HEVC
SAO Intra Modes By~~



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form of HCPM, for reducing the complexity of intra-mode HEVC. • We develop a deep LSTM structure named ETH-LSTM that learns the spatio-temporal correlation of the CU partition, for reducing the complexity of HEVC at inter-mode. This paper is organized as follows.

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Section II reviews the related works on HEVC complexity reduction. Section III

Comparison

~~Reducing Complexity of HEVC: A Deep Learning Approach~~
for reducing the complexity of HEVC at inter-mode. This paper is organized as follows. Section II reviews the related

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works on HEVC complexity reduction. Section III presents the established CU partition database. In Sections IV and V, we propose ETH-CNN and ETH-LSTM to reduce the HEVC complexity at intra-mode and inter-mode, respectively.

~~Reducing Complexity~~

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~~of HEVC: A Deep Learning Approach~~
3D-HEVC is an emerging coding standard for the compression of multi-view video plus depth data. In 3D-HEVC, Depth Modeling Modes (DMMs) searching and coding unit (CU) partition consume a large proportion of the 3D-

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HEVC encoding complexity. This paper proposes techniques to speed up 3D-HEVC depth intra mode decision and early terminated depth CU partition.

~~Complexity Reduction
for Depth Map Coding
in 3D-HEVC ...~~

The ?nal structure of
the LCU is

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determined after traversing the quadtree formed by HEVC with CUs of size 64 64 down to 8 8. The proposed approach of complexity reduction targets CUs of size 16 16 and larger only. By terminating CUs of size at least 16 16, only a reduced number of CUs of size

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Reduction In
Hvc Intra
Coding And
Inter Prediction
Complexity Reduction

...

The evaluations confirm that our proposed hybrid complexity reduction scheme reduces the 3D-HEVC codec complexity by 67.70% on average for the

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DVt compared with the unmodified 3D-HEVC encoder, while maintaining the overall video quality. Compared with the state-of-the-art method, it reduces complexity by 25.74% on average.

~~Online Learning
Based Complexity
Reduction Scheme for~~

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~~3D-HEVC~~

T. Li, M. Xu and X.

Deng, "A deep convolutional neural network approach for complexity reduction on intra-mode HEVC," 2017 IEEE

International Conference on Multimedia and Expo (ICME), Hong Kong, Hong Kong, 2017, pp. 1255-1260. JCT-VC,

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“HM Software,”
[Online].

~~GitHub — tianyili2017/
HEVC Complexity
Reduction: Source ...~~

M.U.K. Khan, M.
Shafique, J. Henkel,
An Adaptive
Complexity Reduction
Scheme with Fast
Prediction Unit
Decision for HEVC
Intra Encoding, in

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IEEE International
Conference on Image
Processing (ICIP),
2013 Google Scholar

Comparison

~~Complexity Reduction
for HEVC Using Data
Mining Techniques~~

However, the
computational
complexity of the
typical HEVC encoder
dramatically increases
because of the

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Recursive searching scheme for finding the best coding unit (CU) partitions. In this paper, an adaptive fast CU size decision algorithm for HEVC Intra prediction is proposed based on CU complexity classification (CC) by using machine learning (ML) technology.

Download File PDF Complexity Reduction In

~~An Adaptive CU Size
Decision Algorithm for
HEVC Intra ...~~

To reduce the computational load of intra prediction, the official HM software uses a fast encoding algorithm [5,7,10] with two phases through a combination of RMD and RDO process.

First, all 35 modes are

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evaluated with respect to a cost function. Nmodes with minimum cost J are then selected as the most promising candidate modes.

~~Fast Intra Mode
Decision for HEVC
GEUR-WS.org
HEVC intra coding of
Ultra HD video with~~

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reduced complexity .
... In this paper, we address the problem of HEVC encoding complexity reduction by proposing a strategy to infer UHD coding modes and quad-tree from those optimized on the lower (HD) resolution version of the input video. A speed-up by a factor of 3 is

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achieved compared to
directly ...

HEVC intra coding of
Ultra HD video with
reduced complexity
Experimental results
illustrate that our
scheme achieves a
significant reduction in
computational
complexity of HEVC
intra-coding.

Compared with the

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HM encoder, the encoding time is reduced by up to 71% with negligible degradation in coding efficiency.

~~A fast HEVC intra-coding algorithm based on texture ...~~
Reading: ETH-CNN & ETH-LSTM —
Reducing Complexity of HEVC (Fast HEVC

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Intra & Inter
(Prediction) 39.76% to
59.74%, and 43.14%
to 64.07% Time
Reduction with Only
1.722% and 1.483%
BD-Rate Increase for
LDB & RA
Configurations
Respectively,
Outperforms Liu
TIP'16 and Li
ICME'17

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~~Reading: ETH GNN &
ETH LSTM —
Reducing Complexity
of HEVC ...~~

According to our evaluations, the complexity reduction opportunity of block partitioning is up to 97%, i.e., the encoding complexity would drop down to 3% for the same coding efficiency if

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the... Reduction In

Hevc Intra
~~Complexity Reduction~~
~~Coding And~~
~~Opportunities in the~~
~~Future VVC Intra ...~~

COMPLEXITY
REDUCTION FOR
HEVC INTRAFRAME
LUMA MODE
DECISION USING
IMAGE STATISTICS
AND NEURAL
NETWORKS.

Thumbnails

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~~COMPLEXITY~~

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~~REDUCTION FOR HEVC INTRAFRAME LUMA MODE ...~~

Relying on the correlation between motion information from the depth map and the associated texture video, the same authors introduced a low complexity depth mode decision method for inter and

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intra prediction to reduce the computational complexity of the 3D-HEVC encoder.

Besides the search range motion estimation and the fast disparity estimation, a fast mode decision for depth coding is presented to avoid full rate–distortion cost

Download File PDF Complexity Reduction In calculation.

Hevc Intra
Coding And
Comparison
~~Low complexity intra
prediction mode
decision for 3D-HEVC~~

...

HEVC-deep-learning-
pipeline Integrating
neural network
models in HEVC
encoder, to test the
complexity reduction
using deep-learning-
based method in

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prediction.
HEVC Intra
Coding And
Comparison

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5bec9ee12e3