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~~HEVC Basics Part II~~
~~HEVC/H.265 Video~~
~~Coding Standard:~~
~~Part 1 Video~~
Codecs \u0026
Compression Guide

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(Feat. Atomos Ninja
V)

How To Edit H265
4K Footage (HEVC)

| Fujifilm X-T3

\u0026 Fujifilm X-
T4.H.266, AV1

\u0026 MPEG-5

Explained - New

Video Codecs for

2020 HEVC/H.265

Video Coding

Standard: Part 2

Analysis and

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Reduction of High
Efficiency Video
Coding for Low-
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Communication An
Efficient Hardware
Architecture of
Intra Prediction in
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H.265 (HEVC) vs
H.264 (AVC)~~

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*Compression:
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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~~Color 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~~

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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)?

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Webinar- Simple
and Efficient HEVC
Encoder Solution
AV1 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

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(HEVC) BL Quick
Tips | H.265 (HEVC)
vs H.264 (AVC):
Which is Better for
4K Video? **How I**

**saved 20
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one basic Script
(Updated 2019,
HEVC) Complexity
Reduction In Hevc
Intra**

A deep
convolutional

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

Abstract: The High Efficiency Video Coding (HEVC) standard significantly saves coding bit-rate over the proceeding H.264 standard, but at the expense

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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 search for rate-distortion optimization (RDO).

Read Free Complexity Reduction In 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 instance, early skip and early CU

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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~~

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

(PDF) Complexity
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~~Reduction of HEVC
SAO Intra Modes
By ...~~

~~Coding And
Comparison~~
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

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Reducing the complexity of HEVC at inter-mode. This paper is organized as follows. Section II reviews the related works on HEVC complexity reduction. Section III

Reducing
Complexity of
HEVC: A Deep

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~~Reduction In~~
Learning Approach
for reducing the
complexity of HEVC
at inter-mode. This
paper is organized
as follows. Section
II reviews the
related works on
HEVC complexity
reduction. Section
III presents the
established CU
partition database.
In Sections IV and

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In, we propose ETH-CNN and ETH-LSTM to reduce the HEVC complexity at intra-mode and inter-mode, respectively.

~~Reducing
Complexity of
HEVC: A Deep
Learning Approach~~
3D-HEVC is an emerging coding standard for the

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Reduction In
Hevc Intra
Coding And
Complexity

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-HEVC encoding complexity. This paper proposes techniques to

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speed up 3D-HEVC
depth intra mode
decision and early
terminated depth
CU partition.

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

The final structure
of the LCU is
determined after
travers- ing the

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quadtrees 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 8 8 will be left.

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Complexity
Reduction In
Vol. 7, No. 10,
2016 Inter
Coding And
Prediction
Complexity
Reduction ...

The evaluations confirm that our proposed hybrid complexity reduction scheme reduces the 3D-HEVC codec complexity by

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67.70% on average for the 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.

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~~Online Learning-
Based Complexity
Reduction Scheme
for 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~~

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Multimedia and
Expo (ICME), Hong
Kong, Hong Kong,
2017, pp.

1255-1260. JCT-VC,
“HM Software,”
[Online].

~~GitHub – tianyili2017/HEVC-Complexity-Reduction: Source~~



M.U.K. Khan, M.
Shafique, J. Henkel,

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Complexity
An Adaptive In
Complexity
Reduction Scheme
with Fast Prediction
Unit Decision for
HEVC Intra
Encoding, in IEEE
International
Conference on
Image Processing
(ICIP), 2013 Google
Scholar

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~~Reduction for HEVC
Using Data Mining
Techniques~~

However, the computational complexity of the typical HEVC encoder dramatically increases because of the recursive searching scheme for finding the best coding unit (CU)

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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.

~~An Adaptive CU~~

Page 30/44

Read Free Complexity Size Decision In Algorithm for HEVC Intra ...

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

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process. First, all 35 modes are evaluated with respect to a cost function. N_{modes} with minimum cost J_{SATD} are then selected as the most promising candidate modes.

~~Fast Intra Mode
Decision for HEVC
CEUR-WS.org~~

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HEVC intra coding of Ultra HD video with 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

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those optimized on the lower (HD) resolution version of the input video.

A speed-up by a factor of 3 is achieved compared to directly ...

~~HEVC intra coding of Ultra HD video with reduced complexity~~
Experimental

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results illustrate that our scheme achieves a significant reduction in computational complexity of HEVC intra-coding.

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

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coding efficiency.
Hevc Intra
Coding And
Comparison
A fast HEVC intra-coding algorithm based on texture ...
Reading: ETH-CNN & ETH-LSTM —
Reducing
Complexity of
HEVC (Fast HEVC
Intra & Inter
Prediction) 39.76%
to 59.74%, and
43.14% to 64.07%

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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

~~Reading: ETH-CNN
& ETH-LSTM~~
Reducing

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~~Reduction in~~ 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

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Opportunities in
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COMPLEXITY
REDUCTION FOR
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LUMA MODE
DECISION USING
IMAGE STATISTICS
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~~COMPLEXITY
REDUCTION FOR
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LUMA MODE ...~~

Relying on the correlation between motion information from the depth map and the associated texture video, the same authors introduced a low

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complexity depth
mode decision
method for inter
and 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

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depth coding is presented to avoid full rate-distortion cost calculation.

Comparison

~~Low complexity
intra-prediction
mode decision for
3D-HEVC ...~~

HEVC-deep-learning-pipeline
Integrating neural network models in HEVC encoder, to

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test the complexity reduction using deep-learning-based method in HEVC intra-prediction.

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