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~~Codecs \u0026amp; Compression~~

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- New Video Codecs for 2020
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An Efficient Hardware
Architecture of Intra
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~~FUJI-X-T3~~ *H.265 (HEVC) vs
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Transcoding Performance

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

Webinar- Simple and

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Solution ~~AV1 vs. HEVC:~~

~~Perceptual Evaluation of~~

~~Video Encoders by Zhou Wang~~

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**one basic Script (Updated
2019, HEVC) ~~Complexity~~**

~~Reduction In Heve 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

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Large Intra-Coding of HEVC
encoding complexity, due to
the brute-force search for
rate-distortion optimization
(RDO) .

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

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As HEVC Intra Coding And Comparison

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 conditions [18], [19], finally adopted by

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the HM reference coding 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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Complexity Reduction of HEVC
SAO Intra Modes By
Adjustment of Offset Values.

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

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

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Temporal Correlation And the CU partition, 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.

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Section III Intra Coding And

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~~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

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the related 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

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inter-mode, Coding And

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~~Reducing Complexity 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-

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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 speed up 3D-HEVC depth intra mode

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decision and early And

terminated depth CU

partition.

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

~~...~~

The ?nal structure of the

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LCU is 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

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size at least 16×16 , only a reduced number of CUs of size 8×8 will be left.

~~Vol. 7, No. 10, 2016 Inter
Prediction Complexity
Reduction ...~~

The evaluations confirm that

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our proposed hybrid And

complexity reduction scheme

reduces the 3D-HEVC codec

complexity by 67.70% on

average for the DVT compared

with the unmodified 3D-HEVC

encoder, while maintaining

the overall video quality.

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Compared with the state-of-the-art method, it reduces complexity by 25.74% on average.

~~Online Learning Based
Complexity Reduction Scheme
for 3D HEVC~~

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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,

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

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

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

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

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

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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

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learning (ML) technology.

Comparison

~~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

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[5, 7, 10] with two phases through a combination of RMD and RDO 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

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

HEVC intra coding of Ultra
HD video with reduced
complexity In this
paper, we address the

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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

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factor of 3 is achieved
compared to directly ...

Comparison

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

Experimental results
illustrate that our scheme

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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
coding efficiency.

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~~A fast HEVC intra coding
algorithm based on texture~~

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Reading: ETH-CNN & ETH-LSTM
– Reducing Complexity of
HEVC (Fast HEVC Intra &
Inter Prediction) 39.76% to

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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-CNN & ETH-LSTM
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According to our evaluations, the complexity reduction opportunity of block partitioning is up to 97%, i.e., the encoding

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Complexity would drop down to 3% for the same coding efficiency if the...

~~Complexity Reduction~~

~~Opportunities in the Future~~

~~VVC Intra ...~~

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HEVC INTRAFRAME LUMA MODE
DECISION USING IMAGE
STATISTICS AND NEURAL

NETWORKS. Thumbnails

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~~COMPLEXITY REDUCTION FOR
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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 intra prediction to

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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

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rate-distortion cost And

calculation.

Comparison

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

HEVC-deep-learning-pipeline
Integrating neural network

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models in HEVC encoder, to
test the complexity
reduction using deep-
learning-based method in
HEVC intra-prediction.

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