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A deep convolutional 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 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).

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

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

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 %.

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

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

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

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

The final structure of the 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 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 our proposed hybrid 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. 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~~

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, " 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 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 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.

~~An Adaptive CU Size Decision 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 process. First, all 35 modes are evaluated with respect to a cost function. Nmodes with minimum cost $J_{SATDare}$ then selected as the most promising candidate modes.

~~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 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 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 HM encoder, the

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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 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

~~Reading: ETH-CNN & 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 the...

~~Complexity Reduction Opportunities in the Future VVC Intra ...~~

COMPLEXITY REDUCTION FOR HEVC INTRAFRAME LUMA MODE DECISION USING IMAGE STATISTICS AND NEURAL NETWORKS. Thumbnails Document Outline Attachments. Previous. Next. Highlight all Match case. Presentation Mode Open Print Download Current View. Go to First Page Go to Last Page. Rotate Clockwise Rotate Counterclockwise.

~~COMPLEXITY 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

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

~~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 HEVC intra-prediction.

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