Complexity Reduction In Hevc Intra Coding And Comparison

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Based on that correlation, we exploit two complexity reduction strategies, including early SKIP and adaptive intra prediction selection. Experimental results demonstrate that our scheme can achieve a complexity reduction up to 63.0%, without any noticeable loss of compression efficiency.

Reducing Complexity of HEVC: A Deep Learning Approach
In our study, we propose an adaptive early-termination inter and intra prediction mode search that reduces the 3D-HEVC coding complexity by utilizing the correlations between views, while ...

Complexity Reduction on HEVC Intra Mode Decision with ...
The algorithms that have been implemented to perform the HEVC complexity reduction are described in the following sections. 4.1. Smooth region analysis. A smooth region is defined as an area within the image that possesses a homogeneous texture. The use of the DC and AC components has proved to be very effective for identifying smooth regions.

Complexity reduction in the HEVC/H265 standard based on ...
Complexity Reduction on HEVC Intra Mode Decision with modified LeNet-5. Abstract: The HEVC (H.265) standard was finalized in April 2013, currently being as the prevalent video coding standard. One key contributor to the performance gain over H.264 is the intra prediction that

(PDF) Complexity Reduction of HEVC SAO Intra Modes By ...
Abstract: The HEVC (H.265) standard was finalized in April 2013, currently being as the prevalent video coding standard. One key contributor to the performance gain over H.264 is the intra prediction that extended a large number of prediction directions on various sizes of prediction units (PUs), thus at a cost of very high computational complexity.

Complexity Reduction In Hevc Intra Coding And Comparison
by intra prediction for High De?nition (HD) sequences. Consequently, for practical applications such as high-resolution video services and real-time processing, HEVC still requires a signi?cant complexity reduction while maintaining the high coding performance. Several approaches have been proposed to reduce the encoding complexity for both ...

Complexity Reduction In Hevc Intra Coding And Comparison
Complexity Reduction Algorithm. for . Quality Scalability in Scalable HEVC 1. Yuan-Shing Chang, 1. Ke-Nung Huang and *, 1. Chou-Chen Wang. Ab. s. tract. SHVC, the. scalable extension of . high efficiency video coding (HEVC), can improve the compression performance by using advanced inter-layer prediction features at the cost of huge

GitHub - wolverinn/HEVC-deep-learning-pipeline ...
Computational complexity of the introduced intra prediction algorithms is analyzed both by deriving operational cycle counts and benchmarking an optimized implementation. Using objective metrics, the bitrate reduction provided by the HEVC intra coding over the H.264/advanced video coding reference is reported to be 22% on average and up to 36%.

Vol. 7, No. 10, 2016 Inter Prediction Complexity Reduction ...
early-termination mechanism, for intra-mode HEVC complex-ity reduction. More importantly, this paper further proposes ETH-LSTM to reduce the HEVC complexity at inter-mode. In contrast, our previous work [12] only addresses complexity reduction in intra-mode HEVC. For learning ETH-LSTM, a large-scale database of inter-mode CU partition is ...

COMPLEXITY REDUCTION IN HEVC INTRA CODING AND COMPARISON ...
High Efficiency Video Coding (HEVC) or H.265 is currently the latest standard in video coding. While this new standard promises improved performance over the previous H.264/AVC standard, the complexity has drastically increased due to the various new improved tools added. The splitting of the 64x64 Largest Coding Unit (LCU) into smaller CU sizes forming a quad tree structure involves a ...

GitHub - tianyili2017/HEVC-Complexity-Reduction: Source ...
Complexity Reduction 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 %.

[PDF] Inter Prediction Complexity Reduction for HEVC based ...
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.

Complexity Reduction In Hevc Intra
[2] 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.

Reducing Complexity of HEVC: A Deep Learning Approach
Abstract: This paper proposes a complexity reduction algorithm for the depth maps intra prediction of the emerging 3D High Efficiency Video Coding standard (3D-HEVC). The 3D-HEVC introduces a new set of specific tools for the depth map coding that includes four Depth Modeling Modes (DMM) and these new features have inserted extra effort on the intra prediction.

Complexity Reduction Algorithm for Quality Scalability in ...
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. The feature of the smooth pixel block can directly skip the DMM without segmentation.

Complexity Reduction for Depth Map Coding in 3D-HEVC ...
COMPLEXITY REDUCTION IN HEVC INTRA CODING AND COMPARISON WITH H.264/AVC by VINOOTHNA GAJULA Presented to the Faculty of the Graduate School of The University of Texas at Arlington in Partial Fulfillment of the Requirements for the Degree of MASTER OF SCIENCE IN ELECTRICAL ENGINEERING THE UNIVERSITY OF TEXAS AT ARLINGTON December 2013

A complexity reduction algorithm for depth maps intra ...
Complexity Reduction In Hevc Intra Coding And Comparison Author: mail.aiaraldea.eus-2020-10-27T00:00:00+00:01 Subject: Complexity Reduction In Hevc Intra Coding And Comparison Keywords: complexity, reduction, in, hevc, intra, coding, and, comparison Created Date: 10/27/2020 3:14:28 AM

Complexity Reduction for Multiview HEVC Codec Using FPGA ...
there is no existing work on the reduction of the 3D-HEVC complexity. To this end, in our study we propose a scheme to effectively reduce the complexity of 3D-HEVC. Our scheme exploits the correlation between views and the corresponding disparity to reduce the inter and intra prediction computational complexity.

A Content Adaptive Complexity Reduction Scheme for HEVC ...
Integrating neural network models in HEVC encoder, to test the complexity reduction using deep-learning-based method in HEVC intra-prediction. Introduction. Using neural networks, we can directly predict the Coding Unit (CU) depths for each frame. The intention is to speed up the encoding process of HEVC encoder.