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CHAPTER 2: VIDEO CODING FUNDAMENTALS - Next-Generation

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Toward Next-Generation Video Coding?
Siwei Ma Peking University Xinfeng
Zhang Nanyang Technological University
Jian Zhang, Chuanminjia, Shiqi Wang,
and Wen Gao Peking University Existing

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in-loop filters rely only on an image's local correlations, largely ignoring nonlocal similarities. The proposed approach uses group-based sparse representation

Nonlocal In-Loop Filter: The Way Toward Next-Generation ...

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Next-generation video encoding techniques for 360 video and VR. By Evgeny Kuzyakov, David Pio. Moving from equirectangular layouts to a cube format in 360 video reduced file size by 25 percent against the original.

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Next-generation video encoding techniques for 360 video ...

of next generation video coding systems High-Efficiency Video Coding (HEVC) or H.265. Also this work presents a comparison of the video coding standards H.264/AVC and H.265/HEVC . According to the experimental results, which were obtained for a particular test

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set of video sequences , H.265/MPEG-

Next Generation Video Coding Systems (H.265/ HEVC) and its ...

With the rapid growth in the consumption of higher resolution and higher quality videos, the demand for more efficient video compression technology has become increasingly

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stronger. In 2018, the Alliance for Open Media (AOMedia) released AV1, an open video coding format that achieved 30% compression improvement over its predecessor VP9.

Novel Coding Tools for the Next Generation Video Coding ...

Advanced Video Coding for Next-

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Generation Multimedia Services. Edited
by: Yo-Sung Ho. ISBN
978-953-51-0929-7, PDF ISBN
978-953-51-5723-6, Published
2013-01-09

Advanced Video Coding for Next- Generation Multimedia ...

Next-Generation Video Coding and

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Next-Generation Video Coding and Streaming - Microsoft ...

Qualcomm Technologies, Inc., a subsidiary of Qualcomm Incorporated, today announced the completion of the Versatile Video Coding (VVC) standard

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for video compression. Qualcomm's leadership in contributing technologies, driving proof-of-concepts, and bringing the standard development to conclusion resulted in the standard completion on July 6 th , with commercial deployments expected in 2021.

Qualcomm Drives Completion of

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Next-Generation Video ...

Video coding techniques offer the possibility of coding video at the lowest possible bit rate while maintaining a certain level of video quality. The latest video coding standard, High Efficiency Video Coding (HEVC), has the capability of doubling the data compression ratio compared to H.264/MPEG-4 AVC at the

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same level of video quality.

Next Generation Video Coding - Leibniz Universität Hannover

Versatile Video Coding (VVC), also known as H.266, MPEG-I Part 3 and Future Video Coding (FVC), is a video compression standard finalized on 6 July 2020, by the Joint Video Experts Team

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(JVET), a united video expert team of the MPEG working group of ISO/IEC JTC 1 and the VCEG working group of ITU-T.

Versatile Video Coding - Wikipedia

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9781118891308: Next-Generation Video Coding and Streaming ...

The exponential growth of video places a

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significant burden on global communication networks. Next generation video compression systems must deliver not only higher coding efficiency, but also high throughput to support increasing resolutions, and low energy consumption as most video is captured on battery operated devices.

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Next-Generation Video Coding Systems | ILP

Reviews the new High Efficiency Video Coding (HEVC) standard and advancements in adaptive streaming technologies for use in broadband networks and the Internet This book describes next-generation video coding and streaming technologies with a

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comparative assessment of the strengths and weaknesses.

Download eBook - Next-Generation Video Coding and ...

Intra Block Copy for Next Generation Video Coding Abstract: Intra block copy, or IBC for short, has shown its effectiveness in coding computer-

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generated contents such as texts and graphics. Therefore, it has been adopted into the HEVC standard version 4, extensions for screen content coding.

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