



A NOVEL PSYCHOVISUAL MODEL ON A STANDARD RESOLUTION FOR VIDEO COMPRESSION

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ABSTRACT

A psychoacoustic model is well established in an audio coding. A psychoacoustic quite threshold is a basic tool on audio coding. This paper investigates on a quantitative experimental impact on almost lossless image compression based on the concept of psychovisual threshold. This paper proposes a practical image coding on a standard resolution two-dimensional discrete cosine transform (DCT). A psychovisual model is presented following the psychoacoustic quite threshold as a just noticeable difference instead of a quantization table. An experimental result on small and large rectangular images shall be presented. This framework can easily produce higher visual quality images at a competitive compression rate in comparison to an extended adaptive JPEG compression standard.

Keywords: psychovisual threshold, just noticeable difference, video coding.

INTRODUCTION

A video consists of a sequence of images. A small raw video of 320 pixels by 240 pixels in 30 frames per second has a data rate at more than 50 Mbit/s. At such high data rate, a video compression is certainly called for.

Current popular image and video coding schemes operate on a small square image block. These frameworks are basically due to a much lower processing power from the previous century. A large high quality image or video frame is typically rectangular. A visual perception on a display resolution can be affected by the display screen's rectangular shape, which is expressed in aspect ratio. The traditional popular ratio is 4:3.

An independent video frame is encoded using only information present in the frame itself. It typically uses only transform coding which provides moderate compression of two bits per pixel per colour channel.

Traditionally, each i-frame is a standalone frame. A video frame is divided into 8 by 8 or 16 by 16 image blocks and then transformed into a frequency domain on each small block. It is an efficient mode of coding. It is even faster to do it on 4 by 4 image block [1].

A typical encoded block consists of 16 by 16 luminance (Y) and two 8 by 8 chrominance (Cb and Cr) components. In MPEG-4, each macroblock's 16 by 16 luminance may be partitioned into 16 by 16, 16 by 8, 8 by 16, and 8 by 8 as discussed in [2].

Previous research mainly focuses on a small block by applying a discrete orthonormal transform on which an optimal quantization table is assigned to the frequency image signals. Recently, the employment of a psychovisual threshold has been investigated on an 8 by 8 JPEG baseline coding [3, 4].

Traditionally, 8 by 8 block transforms have been used for image and video coding. The 8 by 8 size has the advantages of being dyadic, large enough to capture trends and periodicities while being small enough to minimize spreading effects due to local transients over the transform area [5].

In this paper, a novel psychovisual model is proposed and practically tested on a small rectangular image block. One of the major drawbacks of the block-based DCT compression methods is that it may result in visible artifacts at block boundaries. An adaptive post-filtering algorithm has been proposed in [6] to remove coding artifacts in block-based DCT compressed images. A presence of blocking artifacts may be detected using block activity based on human visual system and block statistics.

A psychovisual model is presented following the psychoacoustic quite threshold as a quantization threshold. An experimental result on small 6 by 8 from a large 240 by 320 image frames shall be presented.

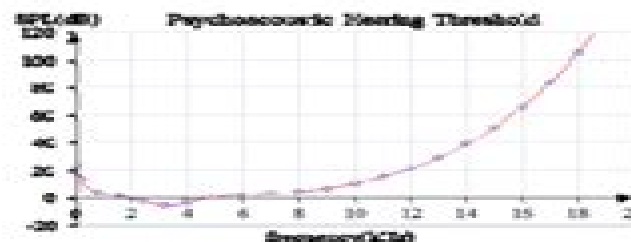


Figure-1. An absolute hearing threshold across audio spectrum.

A Psychoacoustics hearing threshold

The field of psychoacoustics has made significant progress toward characterizing human auditory hearing threshold and particularly the time-frequency analysis capabilities of the inner ear. Nevertheless, the same advancement has not been achieved in the psychovisual model. At the same time, an experiment on a psychovisual threshold is subjective to the frequency transform being applied on the image signals.

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Hard Looks Sean Nixon,2024-11-01 *Hard Looks* is a fascinating examination of the new masculine imagery that has developed in relation to popular consumption over the last decade the author skilfully investigates the development of this new man imagery and its relationship to contemporary formations of masculinity and masculine culture Focusing on the emergence in the mid 1980s of a wide range of new representations of masculinity in the retail advertising and publishing industries the author analyses the practices and derives used to underpin the production and circulation of this imagery The author traces the novelty of these commercially produced representations and analyses their role in producing a space for an ambivalent masculine sexual identity Drawing strongly on contemporary cultural theory *Hard Looks* combines stimulating theoretical debates on representation and cultural identity with authoritative empirical research on the media and retail industries This lively and innovative study will prove essential reading for sociologists interested in the study of men and masculinities and students of culture media and gender studies *Public Opinion Polling in Mid-Century British Literature* Megan Faragher,2021-08-19 Whereas modernist writers lauded the consecrated realm of subjective interiority mid century writers were engrossed by the materialization of the collective mind An obsession with group thinking was fuelled by the establishment of academic sociology and the ubiquitous infiltration of public opinion research into a bevy of cultural and governmental institutions As authors witnessed the materialization of the once opaque realm of public consciousness for the first time their writings imagined the potentialities of such technologies for the body politic Polling opened new horizons for mass politics *Public Opinion Polling in Mid Century British Literature* traces this most crucial period of group psychology s evolution the mid century when psychography a term originating in Victorian spiritualism transformed into a scientific praxis The imbrication of British writers within a growing institutionalized public opinion infrastructure bolstered an aesthetic turn towards collectivity and an interest in the political ramifications of meta psychological discourse Examining works by H G Wells Evelyn Waugh Val Gielgud Olaf Stapledon Virginia Woolf Naomi Mitchison Celia Fremlin Cecil Day Lewis and Elizabeth Bowen this book utilizes extensive archival research to trace the embeddedness of writers within public opinion institutions providing a fresh explanation for the new material turn so often associated with interwar writing **Computational Intelligence in Healthcare** Amit Kumar Manocha,Shruti Jain,Mandeep Singh,Sudip Paul,2021-05-11 Artificial intelligent

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