

Yao Yao Wang Quantization

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~yao Yao Wang Quantization - New York University Tandon ...

©Yao Wang, 2006 EE3414:Quantization 6 Uniform Quantization • Applicable when the signal is in a finite range (f min, f max) • The entire data range is divided into L equal intervals of length Q (known as quantization interval or quantization step-size) $Q = (f_{\max} - f_{\min}) / L$ • Interval i is ...

Binary Encoding and Quantization

Yao Wang, 2017 EL6123: Image and Video Processing 19 Lossless Coding (Binary Encoding) • Binary encoding is a necessary step in any coding system - Applies to • original symbols (eg image pixels) in a discrete source, • or converted symbols (eg quantized transformed coefficients) from a ...

~yao Polytechnic University, Brooklyn, NY11201 Yao Wang

©Yao Wang, 2006 EE3414: Color 9 Trichromatic Color Mixing • Trichromatic color mixing theory - Any color can be obtained by mixing three primary colors with a right proportion • Primary colors for illuminating sources: - Red, Green, Blue (RGB) - Color monitor works by exciting red, green, blue phosphors using separate electronic guns

Modeling Rate and Perceptual Quality of Scalable Video as ...

Yao Wang, Zhan Ma, Yen-Fu Ou Dept of Electrical and Computer Engineering Polytechnic Institute of NYU, Brooklyn, NY 11201, USA Email: yao@polyedu, {zma03, you01}@studentspolyedu Abstract—This paper investigates the impact of frame rate and ...

Perceptual Quality of Video with Periodic Frame Rate and ...

Rate and Quantization Variation—Subjective Studies and Analytical Modeling Yen-Fu Ou, Wenzhi Lin, Huiqi Zeng, Yao Wang Abstract—In networked

video applications, the frame rate (FR) and quantization stepsize (QS) of a compressed video are often adapted in ...

Explicit Loss-Error-Aware Quantization for Low-Bit Deep ...

Explicit Loss-Error-Aware Quantization for Low-Bit Deep Neural Networks Aojun Zhou¹ Anbang Yao Kuan Wang² Yurong Chen¹ ¹Intel Labs China ²Department of Automation, Tsinghua University 1faojunzhou, anbangyao, yurongcheng@intelcom 2wangkuan15@mailsingshua.edu.cn Abstract
Benefiting from tens of millions of hierarchically stacked

Deep Neural Network Compression with Single and Multiple ...

Deep Neural Network Compression with Single and Multiple Level Quantization Yuhui Xu¹, Yongzhuang Wang¹, Aojun Zhou², Weiyao Lin¹, Hongkai Xiong¹ ¹School of Electronic Information and Electrical Engineering, Shanghai Jiao Tong University, China ²University of Chinese Academy of Sciences, China Abstract Network quantization is an effective solution to compress

Video Coding Basics - University of California, Berkeley

Video Coding Basics Yao Wang Polytechnic University, Brooklyn, NY11201 yao@visionpoly.edu

ITCT Lecture 9.3: Predictive Coding II A good reference ...

Non-uniform Quantization Problems with uniform quantization — Only optimal for uniformly distributed signal Real audio signals (speech and music) are more concentrated near zeros Human ear is more sensitive to quantization errors at small values Solution Using non-uniform quantization quantization interval is smaller near zero ©Yao Wang, 2006

Resolution-enhanced all-optical analog-to-digital ...

Resolution-enhanced all-optical analog-to-digital converter employing cascade optical quantization operation Zhe Kang, ¹Xianting Zhang, Jinhui Yuan,^{1,2,*} Xinzhu Sang, Qiang Wu,³ Gerald Farrell,³

Video Coding Standards - University of California, Berkeley

©Yao Wang, 2003 EE4414: Video Coding Standards 11 Improvements over H261 • Better motion estimation - half-pel accuracy motion estimation with bilinear interpolation filter - Larger motion search range [-315,31], and unrestricted MV at boundary blocks - More efficient predictive coding for MVs (median prediction using three neighbors)

Going Deeper with Embedded FPGA Platform for ...

dynamic-precision quantization Specific hardware is also designed to support dynamic-precision data quantization • We show that the performance of FC layers is mainly limited by the memory bandwidth on embedded FPGA platform, which is different from CONV layers In this manner, we apply SVD to the weight matrix of the first FC layer, which

Deep Compression and EIE - GTC On-Demand Featured Talks

• Recent work on “Deep Compression” and “EIE: Efficient Sparse Network Quantization on Pruned Network; Accuracy begins to drop at the same number of quantization bits whether or not the network has been pruned Although pruning made the number of parameters less,

8 coding Quant VQ - Purdue Engineering

©Yao Wang, 2003 Coding: Quantization 26 Generalized Lloyd Algorithm (LBG Algorithm) • Start with initial codewords • Iterate between finding best partition using NN condition, and updating codewords using centroid condition 8_coding_Quant_VQpptx

1 Perceptual Quality Assessment of Video Considering both ...

1 Perceptual Quality Assessment of Video Considering both Frame Rate and Quantization Artifacts Yen-Fu Ou, Zhan Ma, Tao Liu, Yao Wang Abstract

In this paper, we explore the impact of frame rate

HitNet: Hybrid Ternary Recurrent Neural Network

quantization to decrease the accuracy degradation Some others formulated quantization into an optimization problem and then used different approaches to search optimal quantization coefficients, like greedy approximation [27] and alternating multi-bit quantization [25] A few studies [16, 28]

From Model to FPGA: Software-Hardware Co-Design for ...

• Founded by Song Yao, Yu Wang, and Song Han in March 2016 • FPGA-based solution provider for deep learning Automatic compilation tool chain + mini board/IP Architecture for CNN and RNN-LSTM Supporting detection, tracking, object/speech recognition, translation, and etc Page 2
Algorithm Development Compression + Compilation

Error Control and Concealment for Video Communication: A ...

YAO WANG, MEMBER, IEEE, AND QIN-FAN ZHU, MEMBER, WANG AND ZHU: ERROR CONTROL AND CONCEALMENT FOR VIDEO COMMUNICATION 975 Fig 2 A functional block diagram for a video communications system as well as vector quantization The entropy coder, on the other hand, is a lossless device that maps the output

Survey on channel reciprocity based key ... - Tao Wang

Tao Wang • Yao Liu Quantization quantization is the most important part of the shared key establishment, because it provides initial information of the wireless channel All the remaining steps expect an efficient and precise quan-tization output The essential challenge of quantization

Raw Data Compression in Computed Tomography: Noise ...

Yao Xie (team member: Adam Wang) Project Final Report for EE372 Stanford University, Spring 2006-07 July 18, 2007 Abstract 1 Introduction 11 Background X-ray computed tomography (CT) builds on the physical principles of radiography It uses multiple views of an external x-ray source and images x-ray attenuation properties ,, as a