

## Yao Yao Wang Quantization

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Yellow dots indicate the partition levels (boundaries between separate quantization intervals) Red dots indicate the reconstruction levels (middle of each interval) 1.2 fall between 0.75 and 1.5, and hence is quantized to 1.125 -1.5 -0.75 0.75 1.5 0.375 1.125 -1.125 -0.375 ©Yao Wang, 2006 EE3414:Quantization 10 Effect of Quantization Stepsize

## **~yao Yao Wang Quantization**

Quantization Yao Wang Electrical and Computer Engineering Polytechnic University 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 ...

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Yao Yao Wang Quantization ©Yao Wang, 2006 EE3414:Quantization 19 Implementation of  $\mu$ -Law Quantization (Indirect Method) • Indirect Method: – Instead of applying the above computation to each sample, one can pre-design a quantization table (storing the partition and reconstruction levels) using the above procedure. The Yao Wang - YouTube Yao-Yao Wang is on Facebook. Join Facebook to ...

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- Color quantization –Uniform – Adaptive – Dithering ©Yao Wang, 2006 EE3414: Color 3 Light is part of the EM wave Color images with figure captions in this and following slides are from [Gonzalez02] ©Yao Wang, 2006 EE3414: Color 4 Illuminating and Reflecting Light • Illuminating sources: – emit light (e.g. the sun, light bulb, TV monitors) – perceived color depends on the ...

## **~yao Polytechnic University, Brooklyn, NY11201 Yao Wang**

Explicit Loss-Error-Aware Quantization for Low-Bit Deep Neural Networks. Aojun Zhou\*+, Anbang Yao#+, Kuan Wang\* and Yurong Chen. CVPR 2018. 2017. Incremental Network Quantization: Towards Lossless CNNs with Low-Precision Weights. Aojun Zhou\*+, Anbang Yao#+, Yiwen Guo+, Lin Xu and Yurong Chen. ICLR 2017.

## **Anbang Yao**

- Note that the mu-law formula is designed so that if  $x$  ranges from

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( $-x_{\max}$ ,  $x_{\max}$ ), then  $y$  also has the same range. ©Yao Wang, 2006 EE3414:Quantization 19 20. Example • For the following sequence  $\{1.2, -0.2, -0.5, 0.4, 0.89, 1.3 \dots\}$ , Quantize it using a mu-law quantizer in the range of  $(-1.5, 1.5)$  with 4 levels, and write the quantized sequence. •

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## English translation of ? ( yao / yào ) - to want in Chinese

Yao Wang Signal decomposition is a classical problem in signal processing, which aims to separate an observed signal into two or more components each with its own property. Usually each component...

## Yao WANG | Dalian University of Technology, Dalian | DUT ...

About Me. Zhewei Yao is a Ph.D. student in the BAIR, RISELab (former AMPLab), BDD and Math Department at University of California at Berkeley. He is advised by Michael Mahoney, and he is also working very closely with Kurt Keutzer. His research interest lies in computing statistics, optimization, and machine learning.

## Zhewei Yao

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