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## Quantization

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

-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

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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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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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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 mapped

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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-

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size)  $Q = (f_{\max} - f_{\min}) / L$  "Interval  $i$  is mapped to the middle value of this interval Keywords ...

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Quantize data in Matlab Stack Overflow. Quantization ...

## Matlab Code Of Quantization

- Color quantization –Uniform – Adaptive – Dithering

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wave Color images with figure captions in this and following  
slides are from [Gonzalez02] ©Yao Wang, 2006 EE3414:

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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  $x$

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ranges from  $(-x_{\max}, x_{\max})$ , 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. •

quantization - SlideShare

Chinese Pinyin example sentence with 要 ( yao / yào )

Writing in Pinyin Before using this Pinyin example sentence, consider that Chinese characters should always be your first choice in written communication. If you cannot use Chinese characters, it is preferable to use the Pinyin with tones. Only use the Pinyin without tones if there's no other option (e.g.

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writing a text message from/to ...

English translation of 要 ( 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,

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optimization, and machine learning.

Zhewei Yao

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Herb Caen, a popular columnist for the San Francisco

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Chronicle, recently quoted a Voice of America press release as saying that it was reorganizing in order to "eliminate duplication and redundancy. " This quote both states a goal of data compression and illustrates its common need: the removal of duplication (or redundancy) can provide a more efficient representation of data and the quoted phrase is itself a candidate for such surgery. Not only can the number of words in the quote be reduced without losing information, but the statement would actually be enhanced by such compression since it will no longer exemplify the wrong that the policy is supposed to correct. Here compression can streamline the phrase and minimize the embarrassment while improving the English style. Compression in general is intended to provide efficient representations of data while

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preserving the essential information contained in the data. This book is devoted to the theory and practice of signal compression, i. e. , data compression applied to signals such as speech, audio, images, and video signals (excluding other data types such as financial data or general purpose computer data). The emphasis is on the conversion of analog waveforms into efficient digital representations and on the compression of digital information into the fewest possible bits. Both operations should yield the highest possible reconstruction fidelity subject to constraints on the bit rate and implementation complexity.

This monograph offers a comprehensive overview of diverse quantization phenomena in layered materials, covering

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current mainstream experimental and theoretical research studies, and presenting essential properties of layered materials along with a wealth of figures. This book illustrates commonly used synthesis methods of these 2D materials and compares the calculated results and experimental measurements, including novel features not yet reported. The book also discusses experimental measurements of magnetic quantization, theoretical modeling for studying systems and covers diversified magneto-electronic properties, magneto-optical selection rules, unusual quantum Hall conductivities, and single- and many-particle magneto-Coulomb excitations. Rich and unique behaviors are clearly revealed in few-layer graphene systems with distinct stacking configuration, stacking-modulated structures,



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silicon-doped lattices, bilayer silicene/germanene systems with the bottom-top and bottom-bottom buckling structures, monolayer and bilayer phosphorene systems, and quantum topological insulators. The generalized tight-binding model, the static and dynamic Kubo formulas, and the random-phase approximation are developed/modified to thoroughly explore the fundamental properties and propose the concise physical pictures. Different high-resolution experimental measurements are discussed in detail, and they are consistent with the theoretical predictions. Aimed at readers working in materials science, physics, and engineering this book should be useful for potential applications in energy storage, electronic devices, and optoelectronic devices.

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In the last part of the thesis, we consider applying the quantization techniques to image coding. The resulting system is then compared to previous results, which shows noticeable improvement. The proposed system can also be visually optimized readily, which offers additional advantages.

The 30-volume set, comprising the LNCS books 12346 until 12375, constitutes the refereed proceedings of the 16th European Conference on Computer Vision, ECCV 2020, which was planned to be held in Glasgow, UK, during August 23-28, 2020. The conference was held virtually due to the COVID-19 pandemic. The 1360 revised papers presented in these proceedings were carefully reviewed and selected from

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a total of 5025 submissions. The papers deal with topics such as computer vision; machine learning; deep neural networks; reinforcement learning; object recognition; image classification; image processing; object detection; semantic segmentation; human pose estimation; 3d reconstruction; stereo vision; computational photography; neural networks; image coding; image reconstruction; object recognition; motion estimation.

Useful as a reference work, this book offers a good balance between theoretical concepts and practical solutions, with more rigorous formulation of certain problems such as motion estimation, sampling, basic coding theory. Provides an in-depth exposition of fundamental theory and techniques

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for video processing, including frequency domain characterization of video signals and visual perception, video sampling and format conversion, two dimensional and three dimensional motion estimation. Also presents techniques important for video communications, including video coding and error control, and up-to-date coverage on recent international standards on video communications. A chapter is devoted to video streaming over Internet and wireless networks, one of the most popular video communication applications. In addition, it discusses processing and communications of stereoscopic and multiview video. Practicing researchers and engineers.

This Synthesis Lecture focuses on techniques for efficient

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data orchestration within DNN accelerators. The End of Moore's Law, coupled with the increasing growth in deep learning and other AI applications has led to the emergence of custom Deep Neural Network (DNN) accelerators for energy-efficient inference on edge devices. Modern DNNs have millions of hyper parameters and involve billions of computations; this necessitates extensive data movement from memory to on-chip processing engines. It is well known that the cost of data movement today surpasses the cost of the actual computation; therefore, DNN accelerators require careful orchestration of data across on-chip compute, network, and memory elements to minimize the number of accesses to external DRAM. The book covers DNN dataflows, data reuse, buffer hierarchies, networks-on-chip, and

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automated design-space exploration. It concludes with data orchestration challenges with compressed and sparse DNNs and future trends. The target audience is students, engineers, and researchers interested in designing high-performance and low-energy accelerators for DNN inference.

The book focuses on new theoretical results and techniques in the field of intelligent systems and control. It provides in-depth studies on a number of major topics such as Multi-Agent Systems, Complex Networks, Intelligent Robots, Complex System Theory and Swarm Behavior, Event-Triggered Control and Data-Driven Control, Robust and Adaptive Control, Big Data and Brain Science, Process Control, Intelligent Sensor and Detection Technology, Deep

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learning and Learning Control Guidance, Navigation and Control of Flight Vehicles and so on. Given its scope, the book will benefit all researchers, engineers, and graduate students who want to learn about cutting-edge advances in intelligent systems, intelligent control, and artificial intelligence.

This book presents the proceedings of the 2018 International Conference on Security with Intelligent Computing and Big-data Services (SICBS 2018). With the proliferation of security with intelligent computing and big-data services, the issues of information security, big data, intelligent computing, blockchain technology, and network security have attracted a growing number of researchers.

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Discussing topics in areas including blockchain technology and applications; multimedia security; information processing; network, cloud and IoT security; cryptography and cryptosystems; as well as learning and intelligent computing and information hiding, the book provides a platform for researchers, engineers, academics and industrial professionals from around the globe to present their work in security-related areas. It not only introduces novel and interesting ideas, but also stimulates discussions and inspires new ideas.

This book examines distributed video coding (DVC) and



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multiple description coding (MDC), two novel techniques designed to address the problems of conventional image and video compression coding. Covering all fundamental concepts and core technologies, the chapters can also be read as independent and self-sufficient, describing each methodology in sufficient detail to enable readers to repeat the corresponding experiments easily. Topics and features: provides a broad overview of DVC and MDC, from the basic principles to the latest research; covers sub-sampling based MDC, quantization based MDC, transform based MDC, and FEC based MDC; discusses Slepian-Wolf coding based on Turbo and LDPC respectively, and comparing relative performance; includes original algorithms of MDC and DVC; presents the basic frameworks and experimental results, to

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help readers improve the efficiency of MDC and DVC;  
introduces the classical DVC system for mobile  
communications, providing the developmental environment  
in detail.

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