

## *Yao Yao Wang Quantization*

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Non-uniform Quantization in Digital Communication  
by Engineering Funda Quantizer Design Quantum  
Field Theory 2a - Field Quantization I Quantum Field  
Theory 4a - Second Quantization I **quantization in  
quantum physics** 42. Non Uniform Quantizer What  
Is Quantization?! **Quantization Of A Free Real  
Scalar Field | Quantum Field Theory Uniform  
\u0026 Non Uniform Quantization II Encoding II  
 $\mu$ -Law and A-Law companding II ADC** Berry phase  
and Berry curvature in solids 6.4.1 Quantization, Part  
I: Uniform Quantization and PCM Generation LECT-30:  
Classification of Quantization process (Uniform \u0026  
Non-uniform) QFT: What is the universe really made  
of? Quantum Field Theory visualized Quantization Part  
2: Quantization Understanding

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Solving the Impossible in Quantum Field Theory |  
Space Time Quantum Field Theory 3a - Photons | *The  
First Quantum Field Theory | Space Time Quantize  
Meaning* **What are Quantum Fields?**  
**| Introduction to Quantum Field Theory** *Quantum  
field theory, Lecture 1* **Vector Quantization Part-1**  
*Sampling and Quantization of Analog Signal [HD]*  
*Mod-01 Lec-35 Introduction to Quantization*

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Quantum Field Theory 4b - Second Quantization II  
Quantization of EM Field Stability thresholds and  
canonical metrics Quantization **Quantization of  
Neural Networks - High Accuracy at Low  
Precision** Uniform Quantization and Mid-Tread  
Quantizer by Dr. K. Vinoth Babu, VIT ICCV 2015 Video

## Spotlights: Sessions O-1A, P-1A **Yao Yao Wang 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 -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

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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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Explicit Loss-Error-Aware Quantization for Low-Bit

Deep Neural Networks. Aojun Zhou\*, Anbang Yao#, Kuan Wang\* and Yurong Chen. CVPR 2018.  
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- Note that the mu-law formula is designed so that if  $x$  ranges from  $(-x_{max}, x_{max})$ , then  $y$  also has the same range. ©Yao Wang, 2006 EE3414:Quantization 19 20. Example
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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.

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