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Mrinal K Roychowdhury* (mrinal.roychowdhury@utrgv.edu), University of Texas Rio Grande Valley, 1201 West University Drive, Edinburg, TX. *An overview of optimal quantization.*

The basic goal of quantization for probability distribution is to reduce the number of values, which is typically uncountable, describing a probability distribution to some finite set and thus approximation of a continuous probability distribution by a discrete distribution. Mixed distributions are an exciting new area for optimal quantization. Recently, in the paper “An overview of the quantization for mixed distributions”, available in arXiv, I have determined the optimal sets of n -means, the n th quantization error, and the quantization dimensions of different mixed distributions. Besides, I have discussed whether the quantization coefficients for the mixed distributions exist. The results in this paper will give a motivation and insight into more general problems in quantization of mixed distributions. I will talk about it. (Received June 05, 2017)