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University of Texas Rio Grande Valley, Edinburg, TX 78539. *Optimal quantization.*

Quantization for probability distributions refers to the idea of estimating a given probability by a discrete probability supported by a finite number of points. Quantization dimension gives the speed how fast the nth quantization error goes to zero as n approaches to infinity. It has broad applications in signal processing and data compression. I will talk about it. (Received September 15, 2017)