

LEARNING OBJECTIVES - Lecture 20 (Rate-Distortion Theorem: Achievability and More Examples)

After attending lecture and completing the associated readings, you should be able to:

1. State and prove the achievability part of the rate-distortion theorem, using the random coding argument.
2. Compute the rate-distortion function of the Gaussian source under squared error, and similar sources.
3. Discuss the problem of quantization and the Lloyd-Max iterative algorithm.