

LEARNING OBJECTIVES - Lecture 1 (Communication and Beyond Communication)

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

1. State and justify the three big ideas of: (1) Communication is a statistical problem, (2) notion of information rate, and (3) coding.
2. Describe the fundamental problem of communication and its mathematical formulation using a source distribution, distortion function, channel law, and channel input cost function.
3. Consider multifarious engineered and natural informational systems within the information-theoretic framework.