

EL-GY 6063-A

Information Theory

We 12:25PM - 2:55PM

The course will focus on topics in classical information theory. Topics covered in the course include: i) mathematical information measures such as entropy, relative entropy and mutual information, ii) the asymptotic equipartition property, iii) entropy rates of stochastic processes, iv) lossless source encoding theorems and source coding techniques, v) channel capacity, vi) differential entropy, vii) the Gaussian channels, viii) Lossy source coding and rate distortion theory, and ix) a brief overview of network information theory.

Prerequisite: Graduate status, EL-GY 6303.

Instructor: Farhad Shirani, Electrical and Computer Engineering. For additional information contact: <fsc265@nyu.edu>.