Telecom Paris
ACCQ202

Information Theory

Information Sheet

Teacher: A. Tchamkerten (3c51, aslan.tchamkerten@telecom-paris.fr)

Web: `https://www.tchamkerten.com/information-theory`

Each lecture consists of 3 periods of 55 minutes each, 2 periods of course followed by one exercise period session. Between periods there is a 7 minute break.

Exercise sessions (TD) typically consists of a list of exercises, some presented in class, and some given as homework. Homeworks must be handled back at the beginning of the next lecture. One home exercise will be graded.

Grading policy: final exam

Office hours : TBA

Bibliography:

- "Elements of Information Theory", second edition, by Thomas Cover and Joy. A. Thomas (available at the library), 2006
- "Information Theory: From Coding to Learning" by Y. Polyanskiy and Y. Wu, 2025
- "Network Information Theory" by A. El Gamal and Y.H. Kim,2011
- "Information Theory and Reliable Communication" by R. Gallager, 1968
- "Information Theory: Coding Theorems for Discrete Memoryless Systems" by I. Csiszar and J. Körner, 2011, second edition (first edition 1981)
- Relax: https://www.youtube.com/watch?v=z2Whj_nL-x8
- Bed reading: "Fortune's Formula: The Untold Story of the Scientific Betting System That Beat the Casinos And Wall Street" by William Poundstone

About timing: lecture will start right on time. Unless "un cas de force majeur" if you think you might be late, just skip the course and ask the notes to a colleague. If you need to leave the class early, just let me know before the course starts.