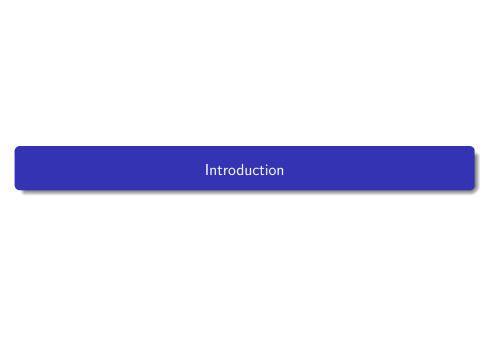


Lecture notes 2019-2020



Organization

Professors:

- ► Lectures: Nicolae Cleju
- Laboratories: Nicolae Cleju

Grades

Final grade = 0.6 Exam + 0.4 Applications during semester (Lab + Tests)

Time schedule

- ▶ 14 weeks of lectures (3h each)
- 14 weeks of laboratories (2h each)
- ▶ Office hours: Wednesdy 12:00 14:00 (best by appointment)

Exercises & Tests

- 3rd hour of each lecture = exercises
- ► There will be 3 semester tests, approximately in 4th, 7th and 10th week
 - more precisely, after the first, second and third chapters
- Exam: half exercises, half theory questions

Course structure

- 1. Chapter I: Discrete Information Sources
- 2. Chapter II: Source Coding
- 3. Chapter III: Discrete Transmission Channels
- 4. Chapter IV: Error Control Coding

Bibliography

- 1. *Elements of Information Theory*, Valeriu Munteanu, Daniela Tarniceriu, Ed. CERMI 2007
- 2. *Elements of Information Theory*, Thomas M. Cover, Joy A. Thomas, 2nd Edition, Wiley 2006
- 3. Transmisia si codarea informatiei, lectures at ETTI (Romanian)
- 4. *Information and Coding Theory*, Gareth A. Jones, J. Mary Jones, Springer 2000