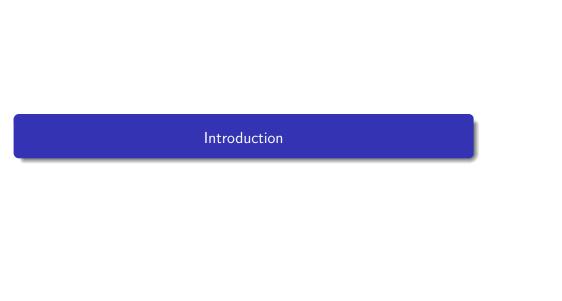
Decision and Estimation in Data Processing



## Organization '

- ▶ 4 credits
- Professors
  - Lectures: Nicolae Cleju
  - Laboratories / Seminar: Nicolae Cleju
- ► Time schedule
  - ▶ 14 weeks of lectures (2h each)
  - ▶ 14h laboratory = 7 laboratories × 2h each
  - ▶ 14h seminar = 7 seminars  $\times$  2h each
- ▶ My office hours: *To Be Announced* (best by appointment)

#### **Evaluation**

- ightharpoonup Exam = 60%
  - ▶ 60% of final grade
  - Exercises and Theory
  - ► Similar to Information Theory exam
- ► Applications = 40%
  - ► Laboratory = 20% (half of Applications grade)
    - ▶ in Matlab / Simulink
    - ▶ activity throughout semester (10%)
    - ▶ final laboratory practical test in Matlab / Simulink (10%)
  - ightharpoonup Seminar + Intermediate tests = 20% (half of Applications grade))
    - ▶ 3 tests: in Week 5, Week 8 and Week 11
    - ▶ test = one exercise, 30 minutes, during seminar
    - ► Tests grade = average of the three tests grades + presence at Seminar
- Final grade = 60% Exam + 40% Applications

#### Course structure

- 1. Chapter I: Random signals
- 2. Chapter II: Statistical decision theory
- 3. Chapter III: Statistical estimation

# Bibliography (TBD)

- 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

### Online access

- ► Moodle platform: edu.etti.tuiasi.ro
- ▶ github.com: https://github.com/nikcleju/DEDP\_Course