

Introduction

Decision and Estimation in Data Processing

Organization

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

Evaluation

- ▶ Exam = 60%
 - ▶ 60% of final grade
 - ▶ Exercises and Theory
 - ▶ Similar to Information Theory exam
- ▶ Applications = 40%
 - ▶ Applications grade = (Laboratory grade + Seminar grade) / 2
 - ▶ Laboratory:
 - ▶ in Matlab / Simulink
 - ▶ activity throughout semester (10%)
 - ▶ final laboratory practical test in Matlab / Simulink (10%)
 - ▶ Seminar + Intermediate tests
 - ▶ 2 tests: in Week 5, Week 10 (approx)
 - ▶ 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. CERM I 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

- ▶ Moodle platform: edu.etti.tuiasi.ro
- ▶ github.com: https://github.com/nikcleju/DEDP_Course