Digital Signal Processing

Introduction

Organization

- 6 credits
- Professors
    - Lectures: Nicolae Cleju
    - Laboratories: Nicolae Cleju
- Time schedule
    - 14 weeks of lectures (3h each)
    - 14 weeks of laboratories (2h each)
- My office hours: *To Be Announced* (best by appointment)

Evaluation

- ▶ Exam
  - ▶ 60% of final grade
  - ▶ Consists of both theory questions and exercises
  - ▶ Many small questions (like in Information Theory exam), both for theory and exercises
- ▶ Laboratory
  - ▶ 20% of final grade
  - ▶ in Matlab / Simulink
  - ▶ grade will be computed from:
    - ▶ activity throughout semester (10%)
    - ▶ final laboratory practical test in Matlab / Simulink (10%)
- ▶ Intermediate tests
  - ▶ 20% of final grade
  - ▶ 3 tests: in Week 5, Week 8 and Week 11
  - ▶ test = one exercise, 30 minutes, during lecture or laboratory (will be decided)
  - ▶ Tests grade = average of the three tests grades
- ▶ Final grade = 60% Exam + 20% Tests + 20% Lab

Course structure

1. Chapter I: Sampling of analog signals
2. Chapter II: Discrete signals and systems
3. Chapter III: . . .
4. Chapter IV: . . .

Bibliography (TBD)

1. *Prelucrarea digitală a semnalelor*, Daniela Tărniceriu (romanian)
2. *Digital Signal Processing: Principles, Algorithms and Applications*, John G. Proakis, Dimitris G. Manolakis, 3rd Edition (english)
3. Lots of others