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
- Applications
  - 40% of final grade
  - Laboratory
    - in Matlab / Simulink
    - grade will be computed from:
    - a). activity throughout semester (10%)
    - b). 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 + 40% Applications (Tests + 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