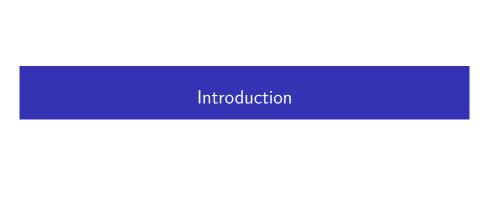# Digital Signal Processing

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
  - theory 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% Lab + 20% Tests

Course structure

1. Chapter I: . . .
2. Chapter II: . . .
3. Chapter III: . . .
4. Chapter IV: . . .

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