Computational analysis of biological structures and networks

Instruction for the thematic workshop

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Assessment methods

Two parts:

- *First part: few questions on course topics (**written exam**, during exam sessions)*

- *Second part: **talk** within a tematic workshop (as in a conference)*

`From introduction`

Assessment methods

Talk *within a tematic workshop: details*

- *The topic of the tematic workshop will be decided in advance*

- *Each student chooses a scientific paper to be presented in 10 minutes*

- *One tematic workshop will be held at the end of the course*

- *Other sessions in June and September*

From introduction

Procedure

- All students who want to participate to the first session need to register by sending an email (Deadline: 15/11)

- All students have to choose a paper on the assigned topic to be presented at the workshop

  - One different paper per student (a list of taken papers will be maintained on the web page)

CHECKPOINT: the chosen paper should be approved by the instructor

Topic

- The topic for this year is "**Bag of words approaches in Bioinformatics and Pattern Recognition**"
  - Definition of words and dictionaries for structured data (e.g. Ngrams)
  - Novel modelling strategies
  - Applications of Bag of words pipeline
  - ...

Procedure

- **Preferred**: Papers published in Briefings in Bioinformatics, Bioinformatics IEEE/ACM Transactions on Computational Biology and Bioinformatics, BMC Bioinformatics, BMC Genomics, Artificial Intelligence in Medicine or other high impact journals (Nature, Science, …)

- **Alternatives**:

  - Other papers published journals of Elsevier, IEEE, ACM, Springer and Oxford Academic can be considered (check)

  - Conference papers published in IEEE-IAPR-ACM conferences

The talk

- 10 minutes (strict!)
- Suggested structure of the talk:
  - Introduction to the problem
  - Main idea (no formulas!) together with the advance with respect to previous works
  - Some results and discussion