T-(538|725)-MALV, Natural Language Processing
About this course

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Outline

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Learning outcome

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On completing the course, students should:

- know the main methods of processing required for computers to analyse and understand texts in a human language
- understand the strengths and weaknesses of current Natural Language Processing (NLP) technology
- know the main models and algorithms used in NLP, such as in morphological analysis, part-of-speech tagging, parsing, semantic analysis, and discourse and dialogue analysis
- know at least one programming language suitable for text processing
- be able to write simple NLP applications and present their work both orally and in writing
- be able to evaluate the performance/accuracy of NLP systems
- be aware of current research in NLP

Text books

Main text

An Introduction to Language Processing with Perl and Prolog

Other books - available in the RU library

- Foundations of Statistical Natural Language Processing
- Speech and Language Processing
- Handbook of Natural Language Processing
- Learning Perl

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Course assessment

Individual parts

- Three assignments: **30%**
  - Assignments are worked on individually.
- A final (programming) project: **30%**
  - Can be worked on in a group of two students.
- A final written exam: **30%**
  - The grade 5.0 is needed to pass the course.
- Participation in course: **10%**
  - MSc students: Reading and presentation of a paper.
  - Participation in class.
- The grade for projects decreases by 1 for each day of late return. Projects are not accepted if handed in more than two days late.

The final project

Schedule

- Week 6: Teachers introduce project proposals
- Week 7: Students select a project
- Week 9: Status report/presentation
- Week 12: Demo and return of report

The course

Dual

- MSc students
- BSc students

Course webpages

- In Myschool
- `http://cadia.ru.is/wiki/public:t-malv-10-3:main`