- Faculté des sciences
- www.unine.ch/sciences

Natural language processing (3IN2010)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Master en informatique	**Cours: 2 ph** **Exercice: 2 ph**	**Voir ci-dessous**	5

ph=période hebdomadaire, pg=période globale, j=jour, dj=demi-jour, h=heure, min=minute

Période d'enseignement:

- Semestre Automne

Equipe enseignante

prof. Jacques Savoy

Contenu

Introduction to natural language processing and their applications; Perl and XML; Introduction to linguistics (morphology, syntax, semantics); simple statistical approaches (KWIC, concordances); Automata and natural language (FSTN, RTN, ATN); Spelling detection and correction; Statistical models (counting words, bigramns, entropy); Markov chains; Hidden Markov chains; Information retrieval.
The final mark is based on both a final written exam and the results of the practical exercices.

References

- Christopher D. Manning, Hinrich Schütze: Foundations of Statistical Natural Language Processing. The MIT Press, Cambridge (MA).

- Pierre Nugues: An Introduction to Language Processing with Perl and Prolog. Springer, Berlin.

Forme de l'évaluation

Examination two hours

Documentation

Copies of the slides available.

Pré-requis

None

Forme de l'enseignement

2 hours of lectures and 2 hours of exercises