		Language Information Processing, Adv.			
<	**>**	Language Information Processing,Adv.			

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This lecture focuses on morphological analysis, syntactic analysis,
semantic analysis, and context analysis, including machine learning
approaches, which are necessary to process natural language texts.
We also explain their applications such as information retrieval and
machine translation.

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Students who got a credit of this class will acquire broad knowledge
about language information processing and also understand basic
algorithms for processing natural language texts.

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One or two lectures are planned for the following topics.

1. Overview of Natural Language Processing
2. Formal Language Theory
3. Language Model
4. Word Sense Disambiguation
5. Markov Model and Part-of-Speech Tagging
6. Probablistic Parsing
7. Machine Learning Approaches in NLP
8. Information Retrieval
9. Machine Translation

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Grading is based on assignments/reports. Evaluation criteria are that students have to understand basic
algorithms of language information processing and submit sufficient reports for the assignments.

Language Information Processing, Adv. (2)

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Christopher D. Manning and Hinrich Schutze   Foundations of Statistical Natural Language Processing
MIT Press, 1998
Christopher D. Manning, Prabhakar Raghavan, Hinrich Schutze   Introduction to Information Retrieval
Cambridge University Press, 2008
Daniel Jurafsky and James H. Martin   Speech and Language Processing   Pearson International Edition,
2009

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Documents used in the course will be available on the lecturers' web pages.

KULASIS