Presentations & Assignments ICS 482 Natural Language Processing

LECTURE 16: PRESENTATIONS & ASSIGNMENTS
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بسم الله الرحمن الرحيم ICS 482 Natural Language Processing

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Assignment 4 – A Paper on Arabic NLP

- search for a recent research paper on Natural Arabic processing
- published within the previous 3 years
- pass the title, author, abstract and references to instructor
- When approved announce your topic under the discussion list 'Presentations'.
 - Paper title
 - outline
 - abstract
- Submit the same on the assignment section

Assignment 4 – A Paper on Arabic NLP

- The paper could be on any topic of Arabic NLP:
 - Arabic Morphology
 - Arabic N-Grams
 - Arabic Parts of Speech
 - Arabic Syntax & grammar Parsing
 - Arabic Semantic analysis
 - English Arabic Machine Translation
 - Arabic Information Extraction
 - Arabic web search
 - Arabic NLP Applications

Assignment 4 – A Paper on Arabic NLP

- Get the reference in hand
- A reference you can understand
 - A person cannot present a topic that he does not comprehend
- The easier the topic, the more interesting the presentation
- Related to Arabic NLP
- Recent paper
 - o published 2003 or later
- If describing a tool, get the tool and try it
- Prepare an outline for your presentation

Assignment 5 - Corpora Bigrams Statistics

- Complete corpora for targeted size
- A program to produce bigram frequencies and probabilities for all tokens in your corpora
- Each entry of the table should look like:
 - Token PreviousToken frequency Probability

Assignment 5 - Corpora Bigrams Statistics

Submit

- o the program
- o the resulted frequency-probability table in a file
- o corpora statistics including
 - x total number of tokens
 - vocabulary size (number of types)
 - most used 100 words in your corpora along with frequencies and probabilities
- A document file describing your corpora and results
- A sample program for assignment 3 is included
 - Thank you Ahmad.

Assignment 6 - Arabic Part of Speech Tagging - Give it a thought

- Planning to use Al-Usaimi's tagset
 - o given in the lecture area of webct
 - to tag each word in your corpora by its corresponding part of speech (POS)
 - Manually and/ or Semi Manually and/ or Automatically
- DON'T Start tagging now ©

Assignment 6 - Arabic Part of Speech Tagging - Give it a thought

- review tagging procedures
- suggest a suitable way that we can use for tagging
 - How could we benefit from individual work for this purpose
- Submit a document file that includes your suggestions, ideas, and plans.