



Final Examination 2nd Semester 2017/2018

CSH403 – NATURAL LANGUAGE PROCESSING

Monday, May 7th 2018 10.15 – 12.15 WIB (120')

Lecturer: ADE

= Individual, Close Book and Note =

Guidelines

- Read the questions carefully.
- Give clear and sufficiently detail answer.
- You may use ballpoint or pencil on writing the answers.
- Pray before the exam. ☺

Student's Name:	Student's ID Number:	Class:	Room:	Score:
.....	IF-.....	

Please write the following sentence:

I am answering all the questions independently and honestly. If I disobey the rules, I am willing to accept sanctions

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Student's Sign:

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Natural Language Processing Mid Term Examination

Competency List:

Competency	Subcompetency
[CLO 3] Able to build and evaluate a semantic-based system (vector semantic and word sense disambiguation)	[CLO 3.1] Explain and calculate semantic similarity
	[CLO 3.2] Explain word sense disambiguation
[CLO 4] Able to design, develop, and evaluate NLP-based system for a real word problem	[CLO 4.1] Explain text classification
	[CLO 4.2] Implement an NLP-based system

1. [CLO 3.1] Explain and calculate semantic similarity [25]

There are two types of method to determine the semantic similarity between words. Describe the two method types and give explanation on each advantages and disadvantages!

2. [CLO 3.2] Explain Word Sense Disambiguation [20]

- a. What is word sense?
- b. What does “word sense disambiguation” task means?
- c. Describe a method that can solve the word sense disambiguation task!

3. [CLO 4.1] Text Classification [25]

- a. Explain a problem that can be solve by cast it as a text classification problem! Give your justification why it can be solved as a classification problem!
- b. What features that can be used to perform the classification? Give explanation!

4. [CLO 4.2] NLP-based application for real world problem [30]

Based on your project assignment, what is the part of the project that you think you master it most? Please describe the part, including the method involved!

For example: you think that you master the bag-of-words model, then you should provide a description of the model, give a simple example, and what is the contribution of the model to the whole application!