WOA7013 THEORY AND APPLICATIONS OF NATURAL LANGUAGE PROCESSING
SEM II 2020/2021

Part A: **Individual Assignment - A Review Write-up** *(20 marks)*

Task2: 15 marks

Text preprocessing is traditionally an important step for Natural Language Processing (NLP) tasks.

Aim: To write a review on the role of text preprocessing in the specific NLP application (which was assigned in Task 1).

Task:

i. Review 3-5 papers (including journal articles, theses and dissertations, conference proceedings, or technical reports) relevant to your topic and application

ii. Start with a brief overview of the NLP application.

iii. Identify the text preprocessing techniques used in the NLP application.

iv. Based on the knowledge, discuss the role and suitability of the preprocessing techniques used in that application.

v. Make sure you present a critical discussion, not just a descriptive summary of the topic.

Submission:

i. Use the following template for writing your review.

ii. Save your review in PDF using the following format for the name of the file: **YOURIDNUMBER.pdf**. Example, if your ID is 17143630/1, then save your file as **17143630.pdf** (omit the **/1**).

iii. Submit/upload your review in Week 7 through the platform provided in Spectrum.

iv. Kindly upload your file in Spectrum before the dateline to avoid penalty.

Title of your Review

e.g. A Review on the role of Text Preprocessing in Sarcasm Detection

Name and ID Number

1. Abstract

   The summary of the review.

2. Introduction.

   Introduce the NLP application assigned to you. Discuss the nature of the background, the dataset or language used, approaches, etc.

3. Findings

   Discuss the text preprocessing techniques used in the NLP application.

4. Discussion and Conclusion

   Discuss the roles and suitability of the preprocessing techniques used in that application. You may also want to justify the used of the preprocessing techniques based on its data or domain. Then, conclude your findings.

5. References.

   3-5 articles. The article must be relevant to the topic and can be from any refereed journals and conferences. Kindly use the following format for references.

Tubishat, M., Idris, N., & Abushariah, M. A. M. (2018). Implicit aspect extraction in sentiment analysis: Review, taxonomy, opportunities, and open challenges. *Information Processing & Management*, 54(4), 545-563.