

Natural Language Processing and Information Retrieval with Applications in Social Networks, Fall 2020

Place: Room 107, New Building, IIS, AS Time : 14:00-17:00 on Thursday

Chair: Dr. Lun-Wei Ku

Outline: This course first goes through the common background required in studying various NLP and IR techniques. Afterwards, algorithms for performing IR and NLP are introduced, and their associated applications then follow each of them respectively. Last, this course is concluded with some selected topics on social networks and deep learning for NLP.

Office hours: by appointment TA: Boaz (boaziko@gmail.com)

Grades: Exam 40% Class 10% Project 50%

Week	Date	Topics/Brief Description	Lecturers
1	2020/09/17 1300-1600	Course Introduction and Overview, and Basic Text Processing	Lun-Wei Ku
2	2020/09/24	Tokenization and POS Tagging	Keh-Yih Su
3	2020/10/01	Moon Festival	-----
4	2020/10/08	FSA, Syntax and Parsing	Keh-Yih Su
5	2020/10/15	N-gram Language Modeling	Hsin-Min Wang
6	2020/10/22	Text Classification and Clustering	
7	2020/10/29	Introduction to Spoken Language Processing	
	2020/10/30	Prerequisite Exam on Programming	Chih-Yu Wang
8	2020/11/05 1300-1600	IE & IR Modeling,	Lun-Wei Ku
9	2020/11/12 1300-1600	Evaluation, Relevance Feedback, Query Expansion	
10	2020/11/19 1300-1600	Final Project Proposal	
11	2020/11/26	Discourse Relation Analysis	Hen-Hsen Huang
12	2020/12/03	Semi-supervised Learning for NLP Tasks	
13	2020/12/10 1300-1600	Sentiment Analysis and Opinion Mining	Lun-Wei Ku
14	2020/12/16	Exam	
	2020/12/17	Fine-Grained Opinion Mining	Chung-Chi Chen
15	2020/12/24	NLP in FinTech Applications	
16	2020/12/31	Lexical Semantics	Wei-Yun Ma
17	2021/01/07	Chatbots: Theory and Practice	
18	2021/01/14	Demo Preparation / Polish Up your Demo	Students/ TA
19	2021/01/21 1300-1600	Project Demo	Lun-Wei Ku