

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

Chair: Dr. Wen-Lian Hsu and 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

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Grades: (midterm exam 35% ; final exam 35 % ; project 30%) (For the project, proposal 5%, presentation 5%, evaluation 20%)

Week	Date	Topics/Brief Description	Lecturers
1	2018/09/13	Course Introduction and Overview, and Basic Text Processing	Lun-Wei Ku
2	2018/09/20	N-gram Language Modeling	Hsin-Min Wang
3	2018/09/27	Tokenization and POS Tagging	Keh-Yih Su
4	2018/10/04	Text Classification and Clustering	Hsin-Min Wang
5	2018/10/11	FSA, Syntax and Parsing	Keh-Yih Su
6	2018/10/18	IR Modeling and Evaluation and Project Proposal	Lun-Wei Ku
7	2018/10/25	Information Extraction	Yi-Shin Chen
8	2018/11/01	Relevance Feedback and Query	Lun-Wei Ku
9	2018/11/08	Midterm Exam	
10	2018/11/15	Lexical Semantics	Wei-Yun Ma
11	2018/11/22	Discourse Relation Analysis	Hen-Hsen Huang
12	2018/11/29	Question Answering (part1)	Yi-Shin Chen
13	2018/12/06	Question Answering (part2)	Yi-Shin Chen
14	2018/12/13	Semi-Supervised Learning for NLP Tasks	Hen-Hsen Huang
15	2018/12/20	Introduction to Deep Learning	Wei-Yun Ma
16	2018/12/27	Chatbots: Theory and Practice	Wei-Yun Ma
17	2018/01/03	Review Week and Project Demo	(Lun-Wei Ku/TA)
18	2018/01/10	Final Exam	