

# Introduction of Text Mining

2020 fall

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CHIEN CHIN CHEN

# Course Information (1/5)

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## Instructor:

- 陳建錦 (Chien Chin Chen)
- E-mail: [patonchen@ntu.edu.tw](mailto:patonchen@ntu.edu.tw)
- Office: Mgmt II 414.
- Office hours: by appointment

## Teaching assistant:

- 賴柏霖, r08725022@ntu.edu.tw
- 羅良瑋, r08725024@ntu.edu.tw
- 陳芝妘, r08725031@ntu.edu.tw

Class time: 9:10~12:10, every Friday.

Location: Mgmt II 104

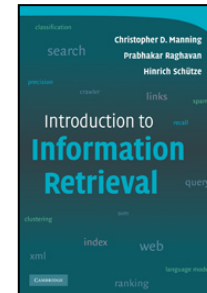
Course website: NTU COOL

# Course Information (2/5)

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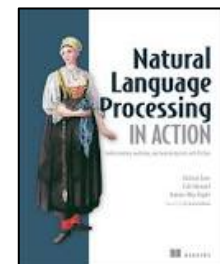
## Text book:

- Christopher D. Manning, Prabhakar Raghavan and Hinrich Schütze, Introduction to Information Retrieval, Cambridge University Press, 2008.



## References:

- Hobson Lane, Cole Howard, and Hannes Max Hapke, Natural Language Processing in Action, Manning, 2019.
- Christopher D. Manning and Hinrich Schütze, Foundations of Statistical Natural language Processing, The MIT Press, 1999.



# Course Information (4/5)

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This course **would** cover the following contents:

- Term Vocabulary
- Term Weighting and Vector Space Model
- Text Classification and Naive Bayes
- Vector Space Classification
- Flat Clustering
- Hierarchical Clustering
- Latent Semantic Analysis
- Language Models
- Link Analysis
- Concept of Neural Network
- Word2Vec & Bert

# Course Information (5/5)

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## Prerequisite:

- Programming
  - We have a lot of text mining code examples using Python.
- Probability
  - Many text mining model are based on term frequency.

## Grading:

- Programming assignment (at least 4 assignments): 30%
- Final: 35%, on 1/8/2021
- Term project: 35%, demo on 1/15/2021

# Programming Assignment Policy

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Please zip and submit your source code and a brief note via email to TA.

- Format:
  - Plain A4 size page
  - $\geq 2$  pages
  - Font size: 12 point
  - Single column
  - Single space

**Late homework would not get any credit!!**

**Students who copy (or copied) other's code will not get any credit!!**

# Term Project Policy (1/2)

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Each team can have at most 5 members

Please prepare a one-page proposal and send it to TA on **12/11/2020** (font size: 12 point, single column, single space)

- The name of your project
- Members
- A brief description of your project and possible solutions

Each team will have an **5-minute** presentation to show your system

- An 1-minute Q&A

# Term Project Policy (2/2)

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Each team also needs to submit a project report to TA before **1/22/2021**.

- Format: <http://www.acm.org/sigs/publications/proceedings-templates>
- At least 4 pages
- The purpose of your project
- Your solution
- System outcomes
- Conclusions
- Member's workload
- References



# Schedule Note

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Sorry that I have to manage 碩士推甄 on 11/6 ☹

**NO CLASS on 11/6!!**

BUT ... we do have class on the midterm day, that is, 11/13!!