Algorithm Design and Analysis

Course Logistics

Sep 14th, 2017

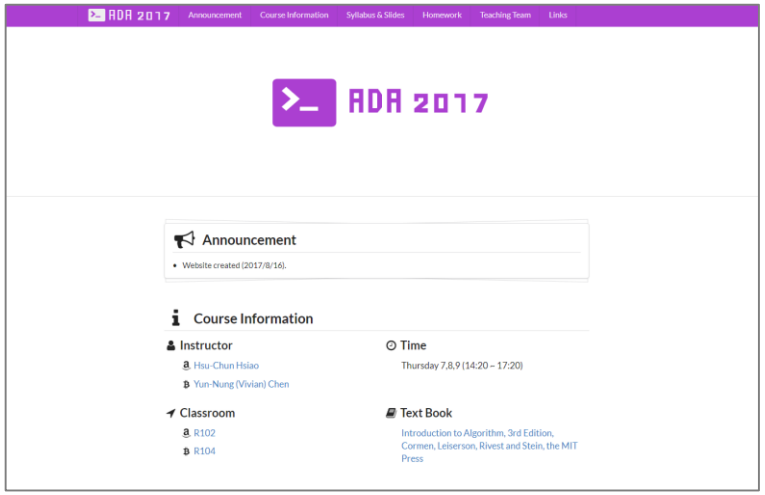
YUN-NUNG (VIVIAN) CHEN

HTTP://ADA17.CSIE.ORG

國立臺灣大學
National Taiwan University

Algorithm Design & Analysis

- Instructor: 陳縕儂 Yun-Nung (Vivian) Chen
- Time: Thursday 789, 14:20-17:20
- Location: R104



- Website: http://ada17.csie.org
  - Slides uploaded before each lecture
- Email: ada-ta@csie.ntu.edu.tw
  - To ensure timely response, email title should contain “[ADA2017]”
  - Do NOT send to our personal emails
- Knowledge required
  - Programming
  - Data structure

加簽規則

- Pre-requisites
  - Programming
  - Data structure
- Order
  - CSIE (大二 > 研究所應修 > 大四+ > 大三 > 大一)
  - EECS
  - Others
- Registration Google Form
  - The deadline is **17:20 today**!!
- Registration code will be sent out via email

演算法設計與分析
科目流水號：
加選授權碼：
授課教師：陳縕儂

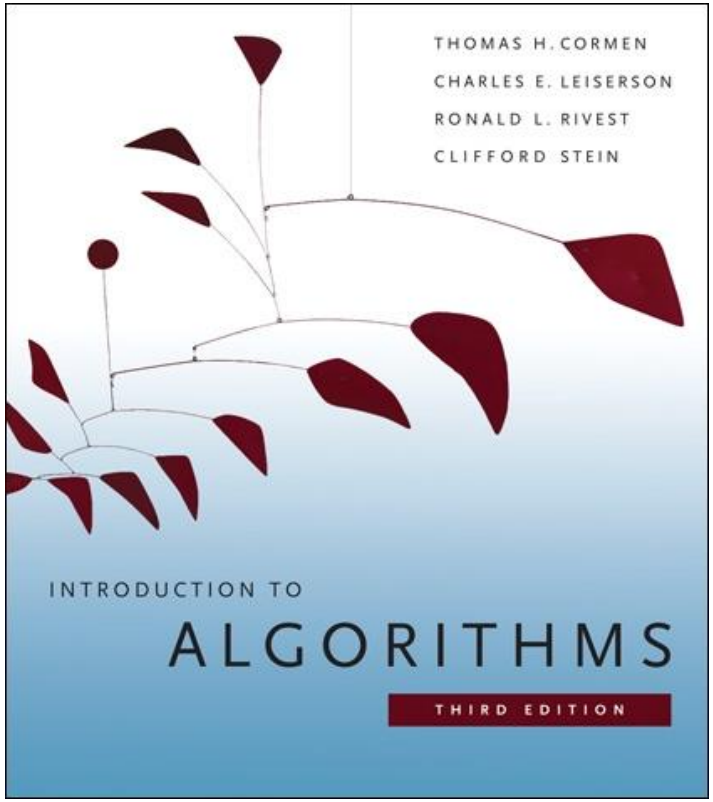
單班ADA

- Lectured by Dr. Hsun-Chun Hsiao
- If the classroom allows, you are free to change to another class
- Same: course content, syllabus, assignments, mini-homework
- Different: slides, exams, some application examples

Teaching Team

- Lead TA (單) 江昱熹
- Lead TA (雙) 高廣
- 許晉嘉
- 王瀚中
- 周忠毅
- 王馨儀
- 黃柏瑋
- 蘇景耀
- 鄭士驤
- 王子朋

Textbook



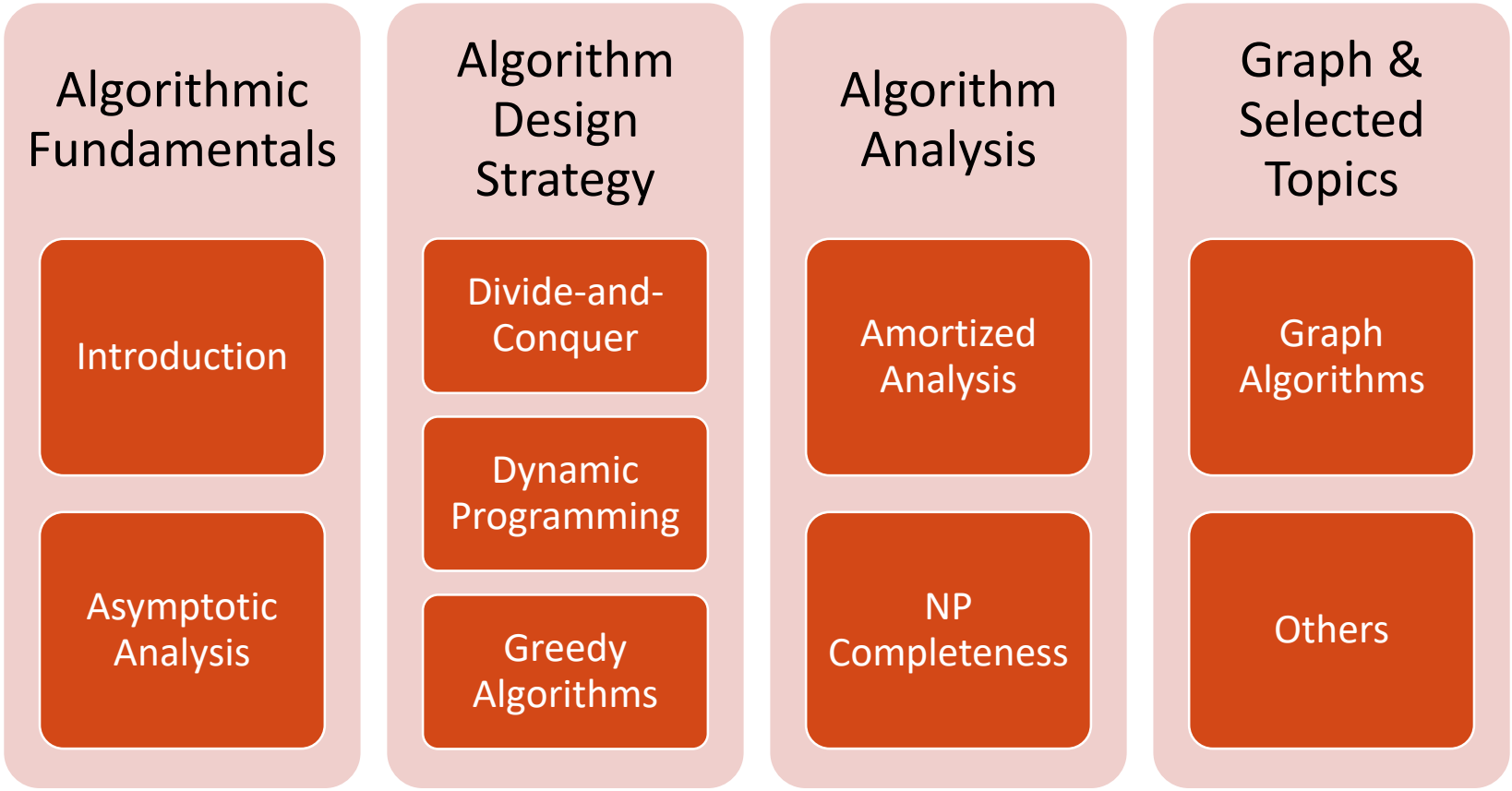
- Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest and Clifford Stein. Introduction to Algorithms. 3rd edition, MIT Press, 2009

Slides credited from hil

Course Objective

- After taking this course, you should be able to
  - ***Design*** correct and efficient algorithms
  - ***Implement*** the designed algorithms
  - ***Prove*** the correctness of algorithms
  - ***Analyze*** the complexity of algorithms

Course Overview



Grading Components

- **Homework Assignments (40%)**
  - 4 in total; once per 2-3 weeks
  - Programming problems
  - Non-programming problems
- **Mini-homework (10%)**
  - Once every week
  - Due before the next week class
- **Midterm (20%)**
  - Course content before midterm
- **Final (25%)**
  - All course content
- **Class Participation (5%)**
  - Asking questions during the class
  - Providing opinions during class discussion
  - Going to office hours
  - Helping your peers

Grading Rules

- 紙本作業
  - 可以與人討論及上網查資料，但必須理解後以自己的話來寫
  - 註明該次作業為
    1) 完全獨立完成
    2) 列出參考資料 (網址、課本頁數)
    3) 致謝共同討論同學
  - 須以A4紙張繳交，若多於一張請於左上角裝訂
  - 盡量用電腦寫，若用手寫看不懂字體時一律不算分
- 程式作業
  - 以測資分數計算，作業結束後會公布測資
  - 上傳規定會在每次作業說明中，請務必仔細閱讀
- **作業抄襲，考試舞弊，抄襲者與被抄襲者學期成績零分**

Question?

Important announcement will be sent to @ntu.edu.tw mailbox & post to the course website

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