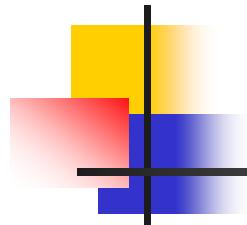


Probability (機率)



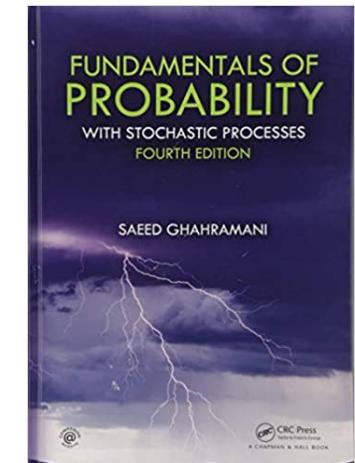
Syllabus

Instructor: Jung-Chun Kao (高榮駿)

Textbook and reference

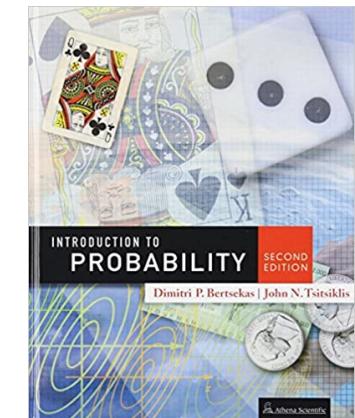
- Textbook

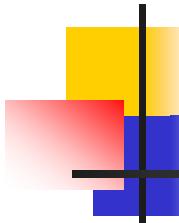
- Saeed Ghahramani, Fundamentals of Probability with Stochastic Processes
 - 4th Edition
 - “Review problems” are available on eclass in case yours is a newer/older version



- Reference book

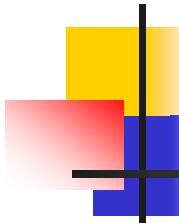
- Dimitri P. Bertsekas and John N. Tsitsiklis, Introduction to Probability
 - 2nd Edition





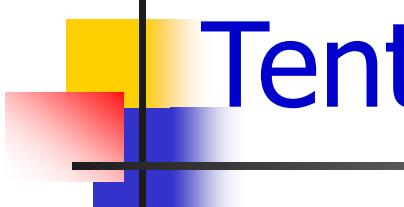
Course outline

- We plan to cover the following:
 - Axioms of probability (ch 1, excluding 1.5 & 1.8)
 - Combinatorial methods (ch 2, reading assignment)
 - Conditional probability and independence (ch 3)
 - Discrete random variables (ch 4&5)
 - Continuous random variables (ch 6&7, excluding 7.4, 7.4-7.6)
 - Bivariate/multivariate distributions (ch 8 & 9.1)
 - More expectations and variances. (ch 10, excluding 10.2 & 10.3 & 10.5)
 - Sums of independent random variables and limit theorems (ch 11, excluding 11.3)



Logistics

- Class time:
 - Wednesdays 10:10am - noon, 台達109
 - Fridays 10:10am - noon, 台達109
 - 本課程上150分鐘，其餘時間由教授視情況彈性運用
- Course webpage:
 - eeclass: <https://eeclass.nthu.edu.tw>
 - My personal homepage (only for syllabus):
<http://www.cs.nthu.edu.tw/~jungchuk>
- Instructor: Jung-Chun Kao (高榮駿)
 - Email: jungchuk@cs.nthu.edu.tw
 - Office hour: Wednesdays 4:30 – 5:30pm
- TAs: See the eeclass webpage for their info



Tentative evaluation

- Assignments (10%)
 - No late homework is accepted
- Midterm and final exams (40% each)
 - Midterm exam on **April 22** (Friday)
 - Final exam on **June 12** (Friday)
 - No make-up!
- Participation (10%)
 - No roll call; don't ask for leave