Advanced Algorithms – Spring'21

Institute of Electronics
National Yang Ming Chiao Tung University

Objectives:
- Learn how to analyze the given problems
- Learn how to design efficient and effective methods to resolve given problems
- Learn the already-known marvelous algorithms for certain classical problems

Prerequisite:
- Computer Programming (mandatory)
- Data Structure (nice to have)

Outlines:
- Introduction
- Sorting
- Fundamental data structures
- Dynamic programming
- Greedy methods
- Fundamental graph algorithms

Textbook:
T. H. Cormen, C. E. Leiserson, R. L. Rivest, and C. Stein, "Introduction to Algorithms," 3rd edition, 2009, MIT Press, ISBN: 978-0-262-53305-8.

Instructor:
Juinn-Dar Huang, Professor (黃俊達教授)
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Teaching Assistant in Charge:
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Class Time & Place:
Thursday BCD @ ED202

Website:
A course webpage is maintained on the e3 platform.
Course materials and announcements will be available here. Visit the web site ***frequently*** to check for class related updates.

Grading:
- Midterm 35%
- Final Exam 35%
- Programming Projects 30%

Scholastic Dishonesty:
Students who violate University rules on ***scholastic dishonesty*** in assignments or exams are subject to disciplinary penalties, including the possibility of a lowered or 0 grade on an assignment or exam, failure in the course, and/or dismissal from the University. Representing the work of others as your own will be considered academic dishonesty and will not be tolerated. Such dishonesty harms the individual, all students, and the integrity of the University, and policies on scholastic dishonesty will be strictly enforced.

Disability Related Needs:
Please notify your instructor of any modification/adaptation you may require to accommodate a disability-related need.