

CS5234 : Combinatorial and Graph Algorithms

CS5234 (Fall 2007)

Combinatorial and Graph Algorithms

Course Web: <http://www.comp.nus.edu.sg/~cs5234/2007-08/>

Tues, 6:30 – 8:30pm, @SR8 (COM1, 02-08)

Leong Hon Wai, COM1 03-41

Tentative Course Schedule (Rev: 10/10/2007)

Wk	Date	In / Out	Topic
1	14/8	Out: HW1	Quick Review: AA & DS, Divide-and-Conquer
2	21/8		Quick Review: Dynamic Programming, Greedy Algorithms
3	28/8	In: HW1 Out: HW2	Heaps and Fast Graph Algorithms Amortized Complexity
4	04/9	Out: LEDA-0	LEDA, Binomial Heaps
5	11/9	In: HW2 Out:	Fibonacci-Heaps; <i>HW1-discussion</i>
6	18/9	In: LEDA-0 Out: HW3	Disjoint Sets , Berth Allocation Problem (BAP) Graph Partitioning
B 7	25/9	Out: Proj-M1	[Make-up for 2/10] *BREAK* Graph Partitioning 2, BAP Project
B B	02/10		*No Lecture* (away on conference)
8	09/10	In: HW3 Out:	Network Flows
9	16/10	Due: Proj-M1 Out: Proj-M2	Bipartite Matching: Algorithms & Applications
10	23/10	Due: Proj-M2 Out:	Problem Reduction, NP-Completeness & Cook's Theorem
11	30/10	Due: Out:	Cook's Theorem and NP-Completeness Proofs
12	06/11	Due: Out:	Approximation Algorithms, Local Search Algorithms
13	12/11	Due: Proj-M3	BAP Project due on Monday 23:59
13	13/11	Due: Out:	Meta Heuristic Search Algorithms
S	20/11		* STUDY WEEK * STUDY WEEK *
E	04/12	Tuesday Evening	Final Exam (OPEN BOOK)