

CS5234 (Spring 2007)

Combinatorial and Graph Algorithms

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

Wed, 4-6; @SR1

Leong Hon Wai, S16 06-01

Tentative Course Schedule

(Revised: 07/01/2007)

| Wk | Date | In / Out | Topic |
|----|------|----------------------|--|
| 1 | 10/1 | Out: HW1 | Intro to Analysis of Algorithms; Data Structures |
| 2 | 17/1 | In: HW1 Out: HW2 | <i>APBC, makeup lecture</i> Heaps & Fast SP Algorithms; Leftist Heaps |
| 3 | 24/1 | | Leftist Heaps & Fast MST Algorithms |
| 4 | 31/1 | In: HW2 Out: HW3 | Amortized Complexity, Binomial Heaps |
| 5 | 7/2 | Out: Prog1 | LEDA; F-Heaps & Fast Shortest Path Algorithms; |
| 6 | 14/2 | In: HW3 Out: HW4 | Case Study: Berth Partitioning Problem |
| | 21/2 | | * BREAK * BREAK * |
| 7 | 28/2 | In: Prog1 Out: P2 | Bipartite Matching: Algorithms & Applications |
| 8 | 7/3 | In: HW3 Out: HW4 | NP-Completeness & Cook's Theorem |
| 9 | 14/3 | | Cook's Theorem and NP-Completeness Proofs |
| 10 | 21/3 | In: HW4 Out: HW5 | Approx Algorithms, Local Search |
| 11 | 28/3 | | Meta Heuristic Search Algorithms |
| 12 | 4/4 | I: HW5 I: P2 | Student Project Presentations |
| 13 | 11/4 | Last lecture | Student Project Presentation |
| 14 | 18/4 | | * STUDY WEEK * STUDY WEEK * |
| 15 | 3/5 | Thu AM | Final Exam (OPEN BOOK) |