Algorithms

by

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Textbook

T. Cormen, C. E. Leiserson, R. L. Rivest, and C. Stein, *Introduction to Algorithms*, third edition, the MIT press, 2009.

Reference

R. C.-T. Lee, R. C. Chang, S.-S. Tseng, and Y.-T. Tsai, *Introduction to the Design and Analysis of Algorithms*, McGraw-Hill, 2005.

Outline:

VI Graph Algorithms

22. Elementary Graph Algorithms
23. Minimum Spanning Trees
24. Single-Source Shortest Paths
25. All-Pairs Shortest Paths
26. Maximum Flow

VII Selected Topics

31. Number-Theoretic Algorithms
33. Computational Geometry
34. NP-Completeness
35. Approximation Algorithms

Self-educated: Chapters 10~12, 18, 32.4

Scoring:

.Homework	20%
.Midterm Examination	35%
.Final Examination	45%

Office Hour: 2:00pm ~ 3:30pm (Mon.~Fri.)