COMP 260

ADVANCED ALGORITHMS

by

GREG & ANDREW
COMP 260

SELECTED TOPICS IN

by

GREG & ANDREW
www.cs.tufts.edu/comp/260

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contact info
syllabus
NEWS
etc
Topics

Graphs: • coloring edges & vertices
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- coloring edges & vertices
- planarity, crossing number
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- Path approximation, spanners & detours (TBD)
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Data Structures
- Fibonacci heaps, splay trees, AVL
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Data Structures:
- Fibonacci heaps, splay trees, AVL
- Suffix trees (and/or other string searching/matching)
Topics

Fundamentals

- computation models
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- lower bounds, completeness, reductions
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- approximation algorithms
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- computation models
- lower bounds, completeness, reductions
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"OTHER"

- comp.geom  (prune & search + ?)
- LP ?
- biocomputing ?
- ?
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FUNDAMENTALS

- computation models
- lower bounds, completeness, reductions
- approximation algorithms

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- comp.geom (prune & search + ?)
- LP ?
- biocomputing ?
- ?
- read papers ?
GRADING

• 2 tests: March 6 & end of term 5% + 5%
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• homework: once in a while 10%
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- project: web demo, implementation, research report, etc 30%
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- homework: once in a while 10%
- participation/discussion: either chat in class, or with us later 20%
- project: web demo, implementation, research report, etc 30%
- presentation: teach us something, ~20-30min 30% (can be substituted w/ more project)
No class March 27

Monday schedule on Feb.20