Course
CS-E3190
Course materials
Your points

This course has already ended.
The latest instance of the course can be found at: Principles of Algorithmic Techniques: 2023 Autumn

« Lecture and Exercise Set 4 - Local Search Course materials 8.2 Graded exercise »

CS-E3190 / Lecture and Exercise Set 4 - Local Search / 8.1 Materials

Materials

- **Lecture slides:**
  - subsetsum.pdf
  - MST.pdf
- **Lecture videos:**
  - Local Search
  - Minimum Spanning Tree
- **Tutorial Exercise:**
  - Tutorial04.pdf
- **Graded Exercise:**
  - Graded04.pdf
  - Latex template: 04-tex-template.zip
- **Lecture script:**
  - Chapter 4 - script 1-5.pdf
- **Jeff Erickson book:**
  - Section 2.3, 2.4, Subset Sum
  - Section 7.5, Kruskal's algorithm
  - The hardness of SubsetSum is quite subtle and there is an "efficient" DP algorithm. See Section 3.8 for details.
- **Wikipedia:**
  - Local search for optimization
- **Union-Find:**
  - Recall Aalto CS-1140 - Data Structures and Algorithms
  - Wikipedia

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