ALGORITHM DESIGN AND ANALYSIS (ALGORITHMS AND COMPLEXITY I) FALL 2013 PROJECT THEMES

The projects can be one of follows:

1. Graph matching algorithms (assigned to Can Umut)
2. Independent set algorithms (assigned to Ceyda)
3. Dominating set algorithms (assigned to Behzat)
4. Graph coloring algorithms (assigned to Gokhan)
5. Vertex cover algorithms (assigned to Yasin)
6. Network flow algorithms (assigned to Ali)
7. Algorithms for Closest Pair of Points (assigned to Emre)
8. Cache efficient sorting algorithms (assigned to Metin)
9. Knapsack algorithms (assigned to Asli)

In each project followings should be achieved:

1. The problem and underlying model should be well defined.
2. At least 3 important algorithms in this field should be selected and implemented (You can prefer any computer language).
3. Algorithms should be compared both theoretically and practically.
4. A comprehensive report and a presentation should be prepared.

Project Deadlines:

- 20 November 2013: The Project Proposal: Aim of the project with the selected algorithms should be described briefly. The reason to choose these algorithms should be given.

- 17 January 2014:
  Final Report and Project Codes.

- 22 January 2014:
  Project Presentations (Each should be at least 30 mins.) Please prepare your implementation environment during presentation.

Submissions should be made to both e-mail addresses:
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