DISTRIBUTED ALGORITHMS (ALSO DISTRIBUTED ALGORITHMS FOR COMPUTER NETWORKS)
COURSE INFORMATION

Instructor: Assoc. Prof. Dr. Orhan Dagdeviren (www.orhandagdeviren.com)
Course Web Page: http://netos.ube.ege.edu.tr/courses.html
Time: Tuesday, 9:30-12:00 (Other course: Thursday, 18:00-20:30)
Assistant: Res. Ass. Can Umut Ileri (e-mail: canumutileri@gmail.com)
Aim and Content:

- This course aims to study distributed algorithm design, analysis and implementations.
- The course will especially cover distributed graph algorithms.
- Both theoretical (algorithm design an analysis) and practical aspects (implementation) of the topics will be introduced.

Course Book: Distributed Graph Algorithms for Computer Networks, Kayhan Erciyes, Springer, 2013.
Supplementary Metarials (Not Full List):
1.Gerard Tel, Introduction to Distributed Algorithms (2nd ed.), Cambridge University Press, 2000.
2.Nancy Lynch, Distributed Algorithms, MIT Press, 1997.

List of Topics:

1. Introduction to Distributed Algorithms
2. Graphs
3. The Computational Model
4. Spanning Tree Construcion
5. Graph Traversals
6. Minimum Spanning Trees
7. Routing

Tentative Grading:
Programming Homeworks: 15 % (2 homeworks)
Written Homeworks: 20 % (6 homeworks)
Paper Presentation: 15 %
Final: 25 %
Project: 25 %

Attendance.