

## DM19 – Algorithms and Complexity – E03 – Lecture 10

### **Announcements**

On Friday, November 14, the discussion section will be in U82E.

### **Lecture, November 3**

We continued with NP-completeness from chapter 34 in the textbook and the section by Papadimitriou and Steiglitz from the first set of notes. We showed that SAT, 3-SAT, CLIQUE, VERTEX COVER, and INDEPENDENT SET were NP-Complete.

### **Lecture, November 10**

We will continue with NP-completeness and begin on approximation algorithms from chapter 35 in the textbook.

### **Lecture, November 17**

We will cover approximation algorithms from chapter 35 in the textbook.

### **Problems to be discussed in week 47**

- 34.5-2, 34.5-4 (you may check on pages 1044–1045 for a hint), 34.5-5 (warning: it is tempting to think that this one is completely trivial; it is not), 34.5-6.
- 34-2, 34-3.