

## DM508 – Algorithms and Complexity – 2014 Lecture 6

### **Lecture, April 29**

We covered Cook's Theorem, proving that SATISFIABILITY from the section by Papadimitriou and Steiglitz from the course notes. We also showed that VERTEX COVER and INDEPENDENT SET are NP-Complete. This is in section 34.5 in the textbook.

### **Lecture, May 6**

We will show that HAMILTONIAN CIRCUIT and SUBSET SUM are NP-Complete. This is in section 34.5 in the textbook.

### **Lecture, May 7**

We will be going on amortized analysis from Chapter 17 of the textbook and Fibonacci heaps from chapter 19.

### **Problems to be discussed in U30a on May 12, 12–14**

Do problems:

17.1-2, 17.1-3, 17.2-3, 17.3-2, 17-3-7.