

## Advanced Distributed Algorithms and Data Structures

WS 2016

### Homework Assignment 11

**Problem 1:**

Finish the proof of Theorem 9.5 on slide 31.

**Problem 2:**

Prove Theorem 9.6.

**Problem 3:**

Implement and test the Build-D2G protocol for diameter 2 graphs. Which degree do the nodes converge to? What is the diameter (can be checked, for example, with search requests with hop count 2 or 3).