

1. Provide answers to the following questions (max half a page each) : (2 p each)
 - a) Define "mean" and "median" and discuss their use in describing measurement data.
 - b) Describe the principles of clustering and different types of clustering algorithms.
 - c) Discuss the effects of high variability ("heavy-tailed" measurements) on measurement analysis.
2. Essay: Modeling data with a probability distribution; the modeling process and methodology. (6 p)
3. How network performance can be measured based on TCP segment headers captured from the network? What are the limitations? (6 p)
4. Define "flow" (3 p)
5. April 2010: You work as a network administrator in a company with 148 employees in two offices. Recently there have been complaints about poor network performance, mostly from Turku branch office with 35 employees. Company chief executive officer wants you to find out a reason for the slower performance and thinks some people are visiting non-work related web sites. How you do measurements? Remember to take into account both technical and non-technical aspects, but do not be overly verbose (a good answer will fit into two pages) (9 p)

Handwritten note: ... or in ...