Algorithms in Genome Research
Winter 2006/2007

Exercises

Number 7, Discussion: 2007 January 12

1. Discuss limitations of indirect methods for measuring protein contents and abundance in a cell.

2. What are the main approaches for gel image warping? What are the underlying ideas?

3. Remember the approach for protein image alignment via piecewise affine transformations.

   (a) What does it mean that the problem may be *infeasible*?
   (b) What is the conceptual difference between global and piecewise transformations?
   (c) What are continuity constraints, and how are they realized?