

**Department of Computer Science** 



# Quick summary of the course so far

- Clustering
  - Finding optimal *n*-centre configurations
    - ATM's, cellular phone networks and the like
       Minimising the overall distance from point to
  - centre Finding contiguous high-density areas
  - Thinking contiguous high-density is

## Modelling

- Regression models
- Finding outliers



# What now?

- Regular sessions are finished
- Still to come:
  - Exam next Thursday (3.5., 16–19)
  - Course work by Wednesday, 16.5.
- So: what to do?



Thursday, 3.5., 16–19 B123

### 3–6 questions

- Short essays (up to one page or so)
- Term definitions
- Algorithm descriptions (not in detail)
- »How would you start mining this data?»

### Material

- Notes for introductory lectures
- Main ideas and basic concepts of the articles



# **Examples of questions**

- In a couple of sentences, define participation index and participation ratio
- Present a broad outline of the joinless co-location mining algorithm in Huang (2005)
- How is the discovery of co-evolving spatial patterns different from the discovery of purely spatial co-location patterns?
- You have a data set that consists of 16 point patterns and the measurements of 5 different continuous variables at various locations. How would you start mining this data?



- Submit by e-mail as a pdf file by Wednesday, 16.5.
- About five pages of text, either
  - Course diary:
    - About half a page per session
      What did you learn this time?
      What was good? What was bad?
  - Essay
    - Based on two or more articles not covered during the course
    - Links to suggested articles on the course page
  - Data mining exercise
    - Report on a hands-on experiment
    - Implementation of an algorithm
       Mining and analysis of own spatial data



Thank you