STI · INNSBRUCK

Intelligent Systems

Exercise sheet 11

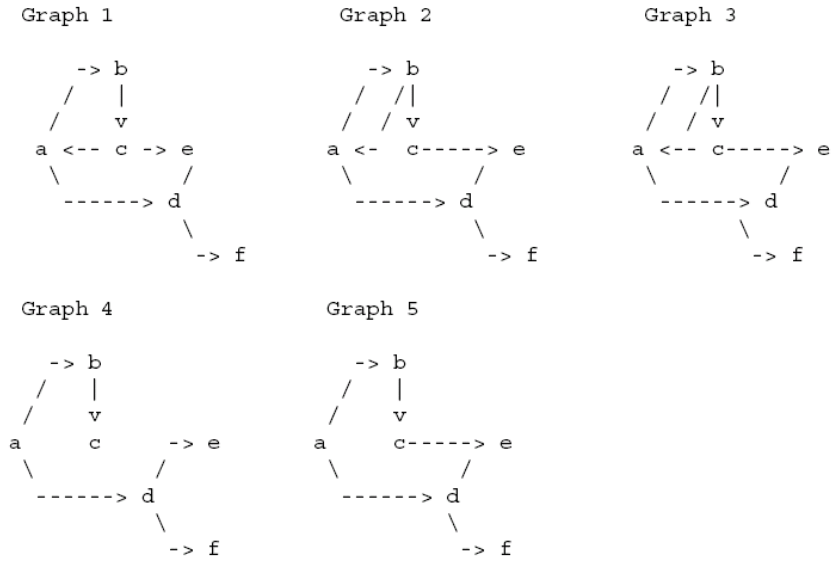
Inductive Logic Programming

Exercise 1 (10 points) Michalsk's train problem (see lecture slides):

- Download Progol, http://www.doc.ic.ac.uk/~shm/Software/progol5.0
- Use the Progol input file for Michalski's train problem, http://www.comp.rgu.ac.uk/staff/chb/teaching/cmm510/michalski_train_data
- Generate the hypotheses

Exercise 2 (10 points) Graph Learning Task.

The following figure shows five graphs, which consist of nodes and arcs that connect nodes. The learning task is to determine whether a graph is acyclic or cyclic, which is determined by one or more properties of a graph.



Devise a rule or set of rules which solve the learning task. What steps are necessary to run Progol to generate a hypothesis?