

Relational Learning and Inductive Logic Programming Made Easy

– abstract of tutorial

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The tutorial will provide answers to the basic questions about inductive logic programming. In particular,

- What is inductive logic programming and relational learning ?
- What are the differences between attribute value learning and inductive logic programming ?
- For what types of applications do we need inductive logic programming ?

The tutorial will also present the representation employed by inductive logic programming and the corresponding generalization and specialisation operators (focussing on theta-subsumption). It will then be shown how these representations and operators can be combined with classical machine learning and data mining algorithms to obtain some of the best known inductive logic programming systems, such as FOIL, GOLEM, TILDE, PROGOL, RIBL, WARMR, ... Finally the tutorial shall discuss current trends and open questions, as well as applications of the field.

The tutorial will also include a short demo-session with some inductive logic programming tools.

Intended audience : the tutorial wants to provide a gentle and general introduction to the field of inductive logic programming to all persons familiar with data mining or machine learning but not yet with (inductive) logic programming