

# B4M36SMU

## Inductive Logic Programming and Applications

Tuesday 2<sup>nd</sup> May, 2017

# Clause Reduction

```
forall  $l \in C$  do  
  | if  $C \leq_{\theta} C \setminus \{l\}$  then  
  |   |  $C \leftarrow C \setminus \{l\}$   
  | end  
end
```

- ▶  $p(X) \vee m(X) \vee p(Y) \vee m(Y)$
- ▶  $p(X, Y) \vee p(Y, X)$
- ▶  $p(X, Y) \vee m(Y, Z) \vee p(W, Q) \vee m(Q, Z)$

## LGG vs MGU [Nienhuys-Cheng and Wolf, 1997]

- ▶  $p(a, X, f(X))$
- ▶  $p(Y, f(b), f(f(b)))$

# Methods and Applications

GOLEM

Foil

TreeLiker

# TreeLiker Demo

download GUI binaries from

<http://ida.felk.cvut.cz/treeliker/TreeLiker.html>

open project from examples (set full path to dataset)

create template, search for patterns, use attribute-value learners