

## Semantic Web policies: Logic programming vs. Description logics Piero A. Bonatti -June 9<sup>th</sup> 2011, 16:00 c.t., E23, OH 14-

An increasing amount of information is being encoded via ontologies and knowledge representation languages of some sort. Some of these knowledge bases are encoded manually, while others are generated automatically by information extraction techniques. In order to protect the confidentiality of this information, a natural choice consists in encoding policies with the same language as the ontology language. This approach led to so-called "semantic web policies". The semantic web is founded on two knowledge representation languages: description logics and logic programs. In this talk we compare their expressive power as policy representation languages, and show that logic programming approaches are currently more mature than description logics, although this picture may change in the near future.

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