

CS 6795

Group 1 Project Description

Aaron Cooper
Ian Scrimger
Bernard Walker
Sebastian Mathieu

We will be designing an XSLT translator to translate a selected subset of RuleML 0.87 to a selected subset of FOL RuleML 0.89. This will be useful to the RuleML community as FOL 0.89 is a new version and corresponding translation tools have not yet been implemented. RuleML is implemented using XML, so XSLT is well suited to this type of translation.

RuleML 0.87 is based on Horn Logic, whereas FOL 0.89 is First Order Logic (FOL), which is more expressive than Horn Logic, which means the target is actually a strict subset of FOL RuleML 0.89. An XSLT was created to translate RuleML 0.86 to 0.87 [www.ruleml.org/0.87/#XSLT/] and ours will be in the similar vein.

The specification for our source language can be found here:
www.ruleml.org/0.87/

The target specification can be found here: www.ruleml.org/fol/

We will provide a concise test case to demonstrate that our translator handles all aspects of the selected subset of RuleML 0.87 correctly. Our paper will provide documentation on our XSLT implementation as well as issues surrounding parsing RuleML.