SaMURaI

***S**emantic **M**ethod for **U**nified **R**ules **I**nteroperability in Knowledge-Based Systems* (**SaMURaI**)

- Preludium 2 NCN Grant no. UMO-2011/03/N/ST6/00886
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- **Start time:** 05.09.2012
- **Duration:** 24 months
- **Budget:** 67 600 PLN

Motivation

The main objective of this project is to propose a new knowledge interoperability formalism for rules. The motivation for this project involves the fact that existing technologies and languages for rule interchange (e.g. RIF, RuleML, R2ML, KIF) suffer from their general nature and complexity, what makes their practical support very difficult. What is more, existing Rule-Based System shells (e.g. CLIPS , Jess , Drools , OpenRules) provide different rule languages, which are merely only a programming solution. Even though the syntax of these languages is precisely defined, they rarely provide any underlying logical interpretation. This research aims at providing formalized methods for rule interoperability supported by tools.

Intended results

The research aims at formulating formalization of a knowledge interoperability for rules. In this project the following rule languages are considered: CLIPS, Jess, Drools, OpenRules. Nevertheless, the proposed approach can be later extended to others rule languages. From the practical point of view, the project outcome will constitute a semantically coherent knowledge interoperability method for rules, which brings the following advantages:

1. Unified logical interpretation of the common rule languages.
2. Unequivocal knowledge exchange between rule language formats.
3. Improved rule base maintenance methods.

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Last update: **2013/01/02 11:20**